

2007

PRIMARY 3 SCIENCE

1.	ACS	-	SA1	-	SA2
2.	AI TONG	CA1	SA1	CA2	SA2
3.	CATHOLIC HIGH	CA1	SA1	CA2	SA2
4.	CHIJ ST NICHOLAS	-	SA1	-	SA2
5.	HENRY PARK	-	SA1	-	SA2
6.	MAHA BODHI	CA1	SA1	CA2	SA2
7.	METHODIST GIRLS	-	SA1	-	SA2
8.	NANYANG	-	SA1	-	SA2
9.	RAFFLES GIRL	-	SA1	-	SA2
10.	ROSYTH	-	-	-	SA2
11.	TAO NAN	-	SA1	-	SA2
12.	KONG HWA	-	SA1	-	SA2

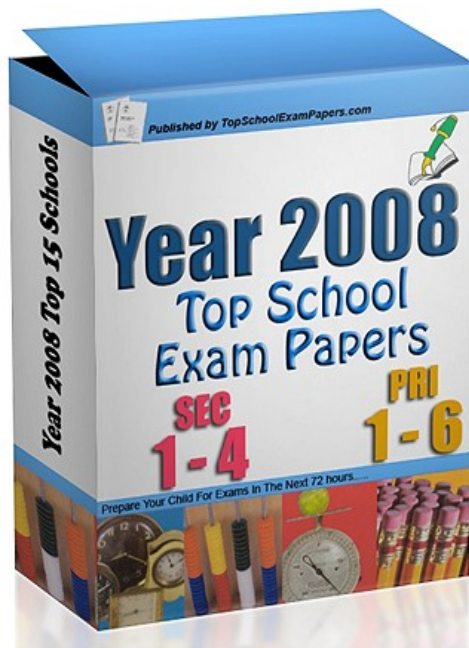
Total : 793 Pages

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AI TONG SCHOOL

2007 CONTINUAL ASSESSMENT (1)

PRIMARY THREE SCIENCE

DURATION : 1hr 20 min

DATE: 8th MARCH 2007

INSTRUCTIONS

**Do not open the booklet until you are told to do so.
Follow all instructions.
Answer all questions.**

Name: _____ ()

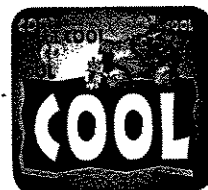
Class : Primary _____

Parent's Signature : _____

Date : _____

Marks :

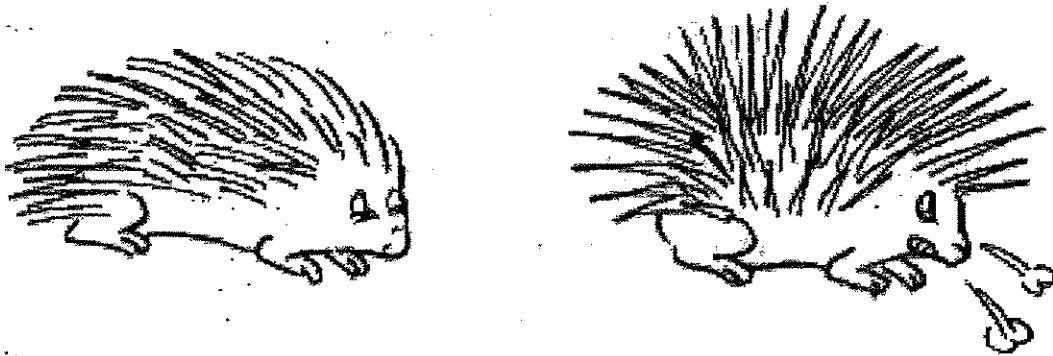
Total	100
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Section A (20 x 2 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. The picture below shows that when a porcupine is disturbed, it raises its quills.



This tells us that a porcupine can _____.

- (1) grow bigger
 - (2) grow quills
 - (3) move about
 - (4) respond to changes around them
2. An aeroplane is a non-living thing because it
- (1) can move
 - (2) needs air
 - (3) needs water
 - (4) cannot grow

3. Which of the following children made a correct statement?

- Andy : Animals reproduce by giving birth only.
Daniel : Non-living things are not alive.
Anne : Living things reproduce to ensure continuity of their own kind.
Charles : All non-living things are made from things which were once alive.

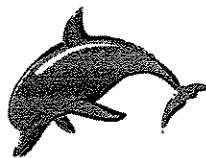
- (1) Daniel and Anne
(2) Andy and Charles
(3) Andy, Daniel and Charles
(4) Andy, Daniel, Anne and Charles

4. ● They cannot make their own food.
● They move from place to place to look for food.

What are they?

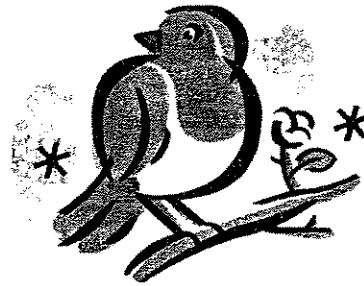
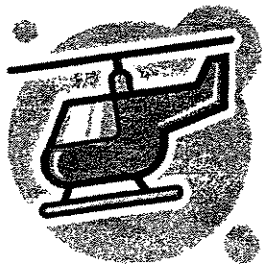
- (1) Plants
(2) Fungi
(3) Animals
(4) Helicopters

5. Which of the following animals can live both in land and in water?



- (1) seal only
(2) dolphin and jellyfish
(3) seal, dolphin and jellyfish
(4) seal, dolphin, jellyfish and mosquito

6. Look at the following pictures.

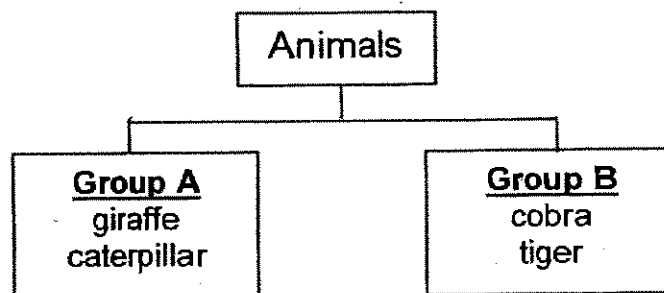


Which of the following best describes them?

- A Both can fly.
- B Both are living things.
- C Both are non-living things.
- D Both can move by themselves.

- (1) A only
- (2) A and D
- (3) A, C and D
- (4) A, B and D

7. Study the classification diagram below.



Which one of the following pairs could be placed in **Group A** and **Group B** respectively?

	Group A	Group B
(1)	hippotamus	lion
(2)	zebra	chicken
(3)	bear	frog
(4)	cockroach	squirrel

8. Which one of the following animals does not lay eggs?

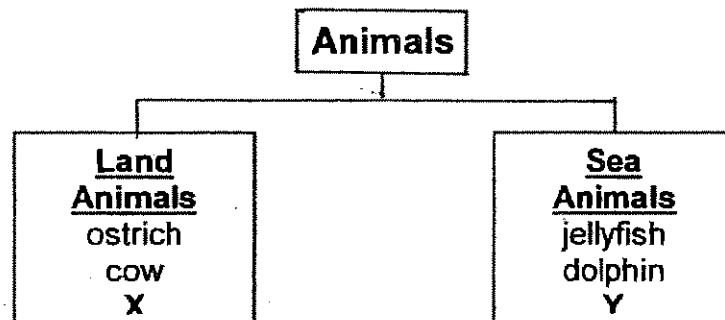
- (1) Duck
- (2) Turtle
- (3) Giraffe
- (4) Chicken

9. Animals move about _____.

- A to look for food
- B to look for water
- C to look for partners
- D to escape from danger or enemies

- (1) A and B
- (2) A, B and C
- (3) A, B and D
- (4) A, B, C and D

10. Study the classification table below.



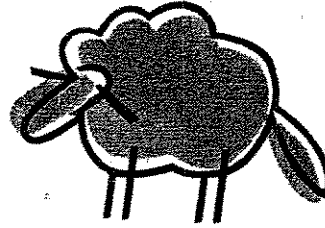
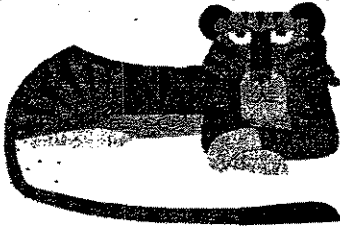
What could X and Y likely to be?

	X	Y
(1)	frog	leopard
(2)	monkey	duck
(3)	parrot	coral
(4)	crocodile	seal

11. Which one of the following has fins and only lives in the water?

- (1) Seaweed
- (2) Tortoise
- (3) Clam
- (4) Swordtail

12. Study the two living things below.



They belong to the same group because they _____

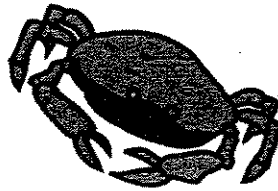
- A have hair
- B live in the same place
- C give birth to their young
- D eat the same type of food

- (1) A and C
- (2) A, B and C
- (3) A, C and D
- (4) A, B, C and D

13. Which one of the following animals can fly?

- (1) Kiwi
- (2) Emu
- (3) Parrot
- (4) Penguin

14. The animal shown below is protected from its enemies by its _____.



- (1) fin
- (2) shell
- (3) horn
- (4) claw

15. The mushroom is classified as a _____.

- (1) fungi
- (2) plants
- (3) animals
- (4) micro-organisms

16. The frog uses its powerful hind legs to _____.

- (1) hop
- (2) swim
- (3) glide
- (4) walk

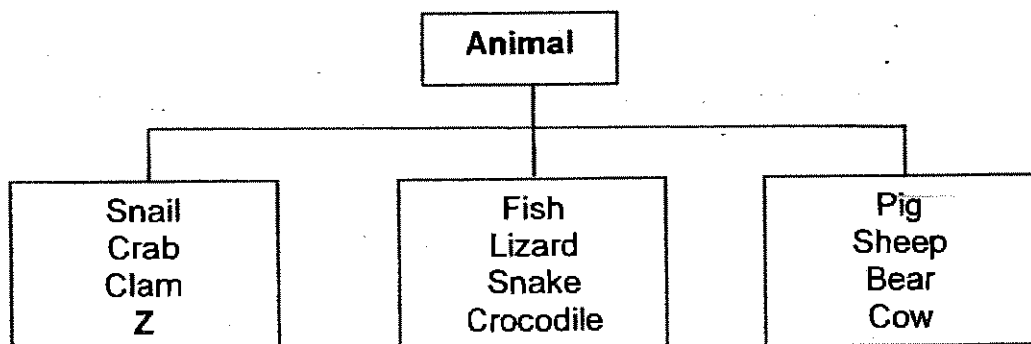
17. Some animals are classified into two groups, Group X and Group Y as shown in the table below.

Group X	Group Y
Ostrich Rabbit Lizard	Butterfly Grasshopper Bee

Which of the following pairs are suitable headings for Group X and Group Y?

Group X	Group Y
(1) Animals with two legs (2) Animals with feathers (3) Animals which cannot fly (4) Animals give birth to their young	Animals with six legs Animals without feathers Animals which can fly Animals which lay eggs

18. The classification diagram below shows how some animals are grouped according to the outer covering.



Which one of the following animals does Z represents?

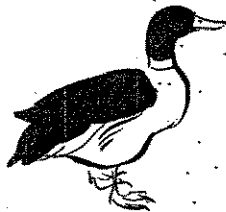
- (1) Frog
- (2) Prawn
- (3) Octopus
- (4) Jelly fish

19. Plants are different from animals as plants _____.

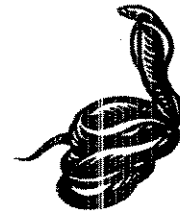
- (1) cannot move
- (2) can reproduce
- (3) can respond to changes
- (4) can make their own food

20. Which one of the following animals eat the same type of food as a chicken?

(1)



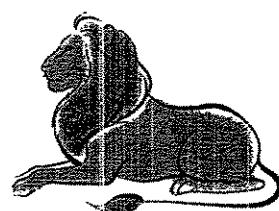
(2)



(3)



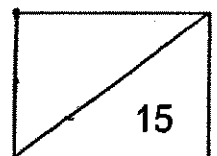
(4)



Section B (10 x 3 marks)**Fill in the blanks with the correct answers. Use each word ONCE only.**

swim	crawling	frog	living things
scales	move	see	classification
alive	colours	cat	wriggling
eggs	feathers	outer coverings	

21. _____ is the sorting of things into groups.
22. Snakes have _____ to protect their bodies.
23. A millipede moves about by _____.
24. A worm moves by _____ its body.
25. The _____ of the animals protect the animals from injury and keep the animals warm.



26. The ability to _____ about by themselves helps

animals to look for food and water.

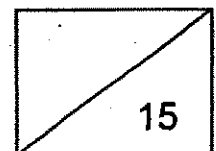
27. Animals can hide from their enemies by having _____

similar to their surroundings.

28. The young of the _____ look like their parents.

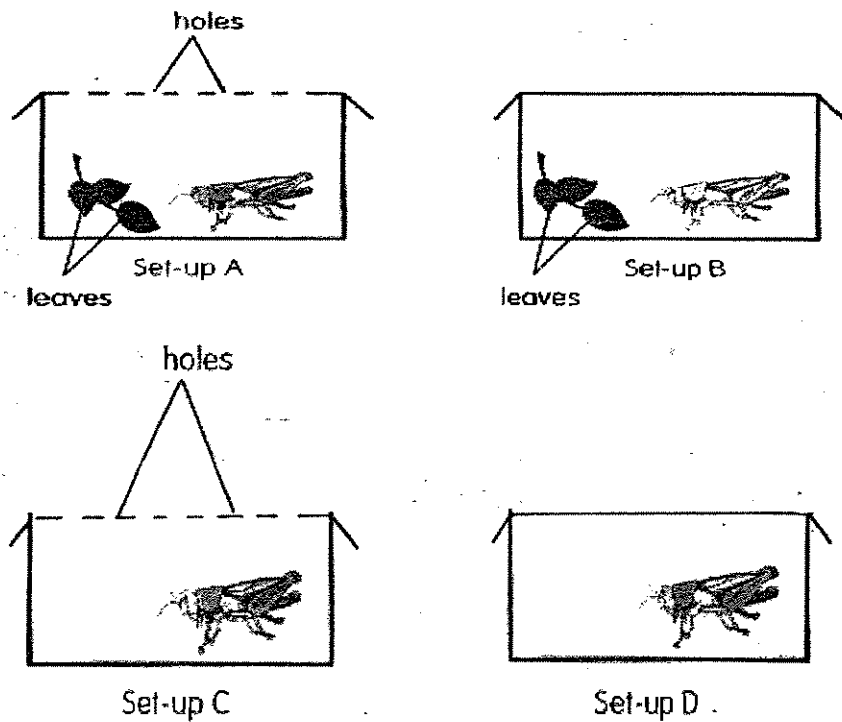
29. An owl and a peacock are similar because they have _____

30. All animals depend on other _____ for their food.



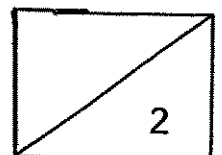
Write your answers from questions 31 to 36 in the spaces provided.

31. Alice carried out an experiment on grasshoppers. She prepared 4 set-ups and put a grasshopper into each one.



- (a) Which grasshopper(s) will most likely survive after one week? [1]

- (b) Why do you think so? [1]



- (c) From the above experiment write down two things that a living thing needs.

(i) _____ [1]

(ii) _____ [1]

32. Write "True" or "False" in the boxes provided. (6 x 1 mark)

(a) Without air, water and food, living things will die.

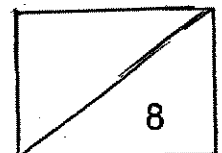
(b) Most living things can live for only a few minutes without air.

(c) A bird can move by flying only.

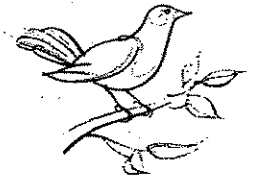
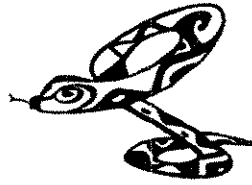
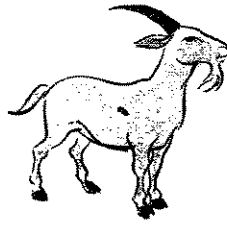
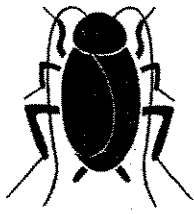
(d) A frog can only live in water.

(e) Plants can respond to changes.

(f) Micro-organisms are very tiny living things.



33. Four different animals are shown below. How do they move?

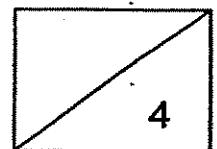


(a) cockroach : _____ [1]

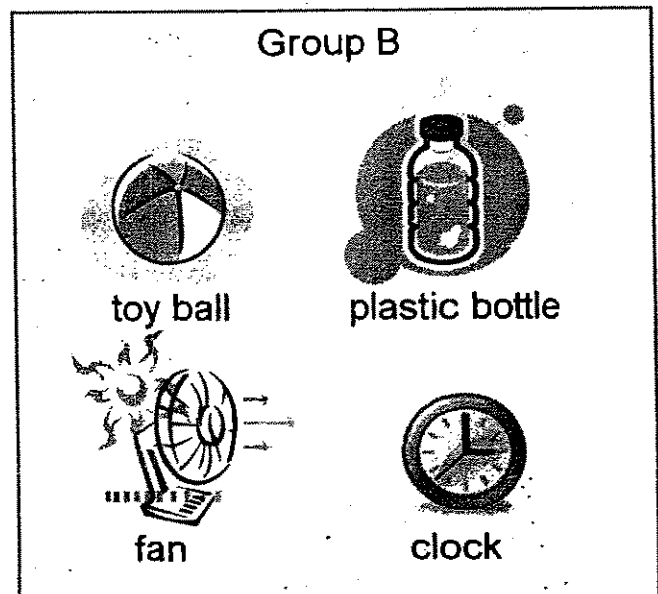
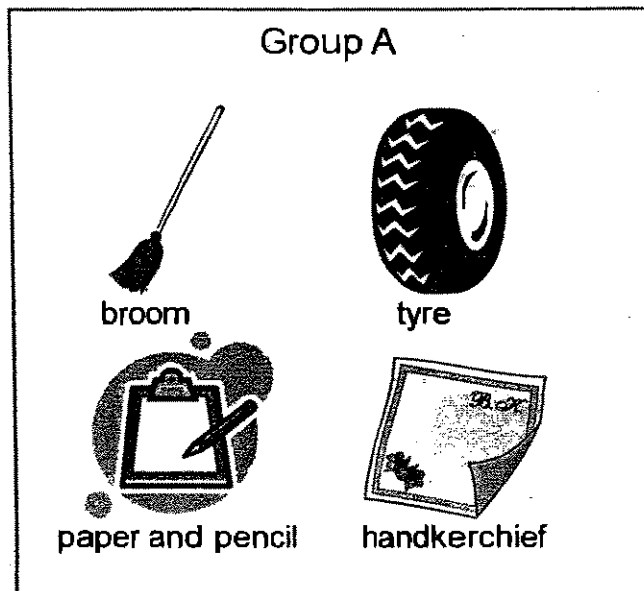
(b) goat : _____ [1]

(c) cobra : _____ [1]

(d) bird : _____ [1]



34. Study the things in Group A and Group B carefully.



(a) How are the things in Group A different from things in Group B?

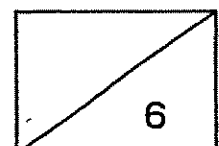
[2]

(b) How are the things in Group A and B similar?

[2]

(c) What is a tyre made of?

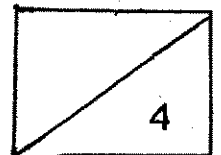
[2]



35. Group these animals according to the way they reproduce. Write down your answers in the table provided. [4]

frog	cheetah	chicken	dog
platypus	goose	elephant	giraffe

Animal that lay eggs	Animal that gives birth to its young



36. Jane classified some animals into two groups, X and Y , as shown below.

Group X	Group Y
Bear	Goose
Sheep	Eagle
Pig	Peacock

(a) How did Jane group these animals?

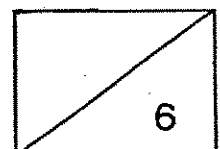
_____ [2]

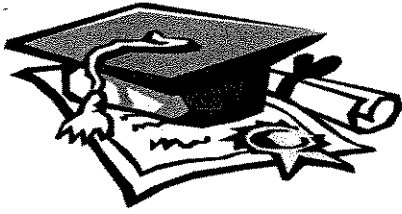
(b) Give two characteristics of the animals in Group X.

(i) _____ [2]

(ii) _____ [2]

The End





ANSWER SHEET

AI TONG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT ()

1. 4
 2. 4
 3. 1
 4. 3
 5. 1
 6. 1
 7. 1
 8. 3
 9. 4
 10. 3
 11. 4
 12. 1
 13. 3
 14. 2
 15. 1
 16. 1
 17. 3
 18. 2
 19. 4
 20. 1
- 21) Classification
- 22) scales
- 23) crawling
- 24) wriggling
- 25) outer coverings
- 26) move
- 27) colours
- 28) cat
- 29) feathers
- 30) living things
- 31) a) Set-up A grasshopper will most likely survive after one week.
b) It is because it has holes of breathe and has leaves to eat.
c) i) They need air.
ii) They need Food.
- 32) a) T b) T c) F d) F e) T f) T
- 33) a) crawl b) walk c) slither
d) fly
- 34) a) The things in Group A are made From material which are once alive but things in Group B are made from material's which are never alive.
b) They are both non-living things.
c) It is made from rubber..

- 35) a) platypus, cheetah
b) frog, elephant
c) goose, giraffe
d) chicken, dog

- 36) a) She group them whether they lay eggs for Group Y and give birth to their young in Group X.
b) i) They have an outer covering of hair.
ii) They can give birth to their young.



MAHA BODHI SCHOOL
2007 CONTINUAL ASSESSMENT 1
SCIENCE

Name: _____ ()

Date: 1 March 2007

Class: P3 _____

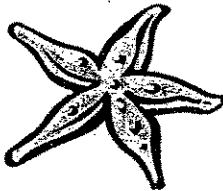
Duration: 1 hr 15 min
(Part I & II)

Part I: [40 marks]

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct answer (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Which one of the following things is a living thing?

(1)



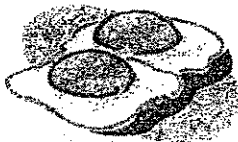
starfish

(2)



light bulb

(3)



fried egg

(4)



teddy bear

2. The following objects are found in the park.
Which of the following objects are non-living things?

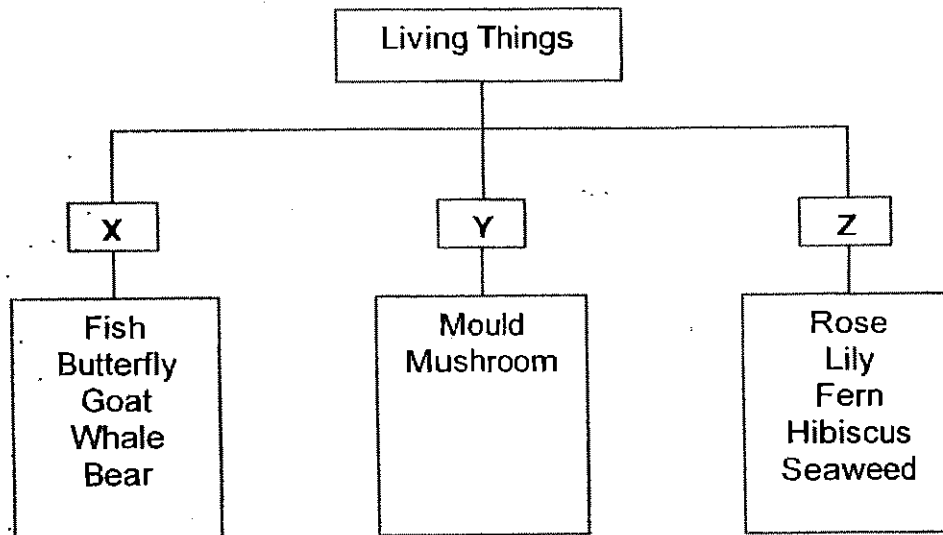
- (A) Bird
- (B) Tree
- (C) Snail
- (D) Bench
- (E) Bicycle

- (1) A and C only
- (2) D and E only
- (3) A, B and C only
- (4) A, B, C, D and E

3. Which one of the following **cannot** move by itself?

- (1) ~~Rose~~ book
 (2) Rabbit
 (3) Mouse
 (4) Crocodile

4. Leslie grouped some living things as shown in the classification table below



Which one of the following lists best represents X, Y and Z?

	X	Y	Z
(1)	Animals	Plants	Plants
(2)	Mammals	Fungi	Plants
(3)	Animals	Non-flowering plants	Flowering plants
(4)	Animals	Fungi	Plants

5. Which one of the following statements is **NOT** correct?

- (1) Paper is made from things that were once alive.
 (2) Plastic bottles are made from things that were once alive.
 (3) Wooden furniture is made from things that were once alive.
 (4) Some non-living things are made from things that were once alive.

Alvin put 6 guppies into an aquarium. The number of guppies was recorded over a period of six weeks in the table below.

Time	No. of Guppies
Week 1	6
Week 3	8
Week 6	5

Using the data in the table, which of the following statements is **true** about the guppies?

- (A) Guppies can reproduce.
- (B) Guppies can grow and die.
- (C) Guppies can move by themselves.
- (D) Guppies can respond to changes.

- (1) A and B only
- (2) C and D only
- (3) B and C only
- (4) A and D only

7. Four students are discussing the characteristics of living things. They said that a living thing can respond to changes and gave an example each.

Alvin : My hair moves when the wind blows.

Jason : My hand feels painful when I touch the hot kettle.

Kelly : My alarm clock rings every morning.

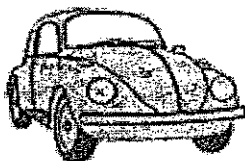
Olivia : My rubber ducky bobs up and down in the water.

Which one of the following students has given a **correct** example?

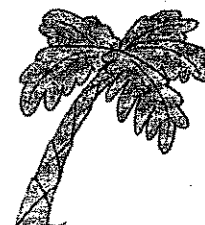
- (1) Alvin
- (2) Jason
- (3) Kelly
- (4) Olivia

8. Which one of the following objects **does not** belong to the same group?

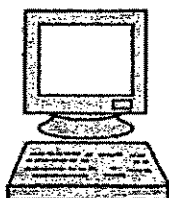
(1)



(2)



(3)



(4)

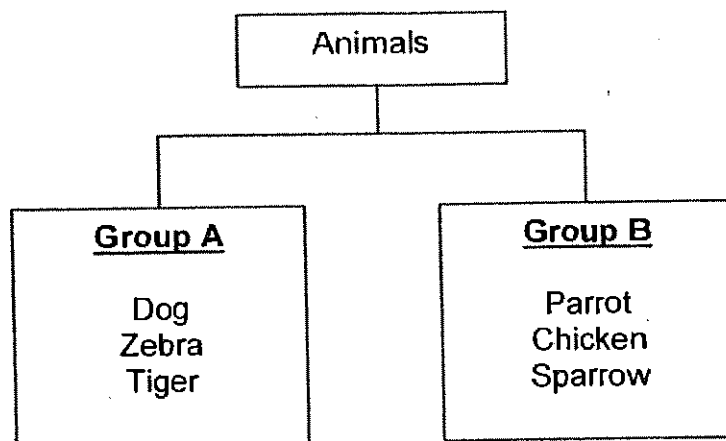


- ❖ It lays eggs.
- ❖ It lives on land.
- ❖ It has feathers on its body.

Which animal is Xenan most likely to be?

- (1) Frog
- (2) Whale
- (3) Penguin
- (4) Caterpillar

10. Some objects are classified into 2 groups as shown below.



Which one of the following living things can be classified under **Group A**?

- (1) Mouse
- (2) Penguin
- (3) Butterfly
- (4) Shark

11. Which one of the following list of things is placed in the correct group?

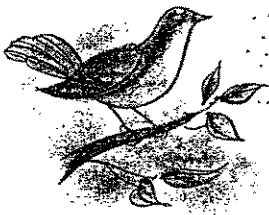
	Living Things	Non-living Things
(1)	Roasted chicken	Orange
(2)	Starfish	Star
(3)	Leather	Cotton
(4)	Mushroom	Mould

12. Which of the following animals have the same outer covering as a lion?

- (A) Seal
- (B) Snake
- (C) Squirrel
- (D) Seahorse
- (E) Sparrow

- (1) A and C only
- (2) A and D only
- (3) C and E only
- (4) B, C and E only

13. Study the diagrams below carefully.



bird



penguin

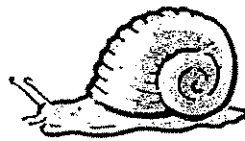


ostrich

Which one of the following statements is NOT correct?

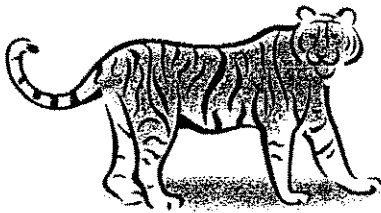
- (1) All of them can fly.
- (2) All of them lay eggs.
- (3) All of them have a beak.
- (4) All of them are covered with feathers.

14. Study the diagrams below carefully.



What is the body covering of the animals shown above?

- (1) Hair
- (2) Shell
- (3) Scales
- (4) Feathers



Which one of the following statements about the two animals shown below is **NOT** true?

- (1) Both of them lay eggs.
- (2) Both of them live on land.
- (3) Both of them are covered with hair.
- (4) Both of them give birth to their young.

16. Which of the following statements show that living things respond to changes?

- (A) A rabbit runs away when it sees a tiger.
- (B) A snail hides in its shell when we touch it.
- (C) The leaves of the mimosa plant close when we touch it.
- (D) Jane screams and runs away when she sees a cockroach.

- (1) D only
- (2) B and C only
- (3) A and D only
- (4) A, B, C and D

17. Which one of the following statements is true?

- (1) All animals can swim.
- (2) All animals can ~~reproduce~~ lay eggs.
- (3) All animals have four legs.
- (4) All animals need air, food and water.

18. Study the body covering of the animals below.



P



Q



R

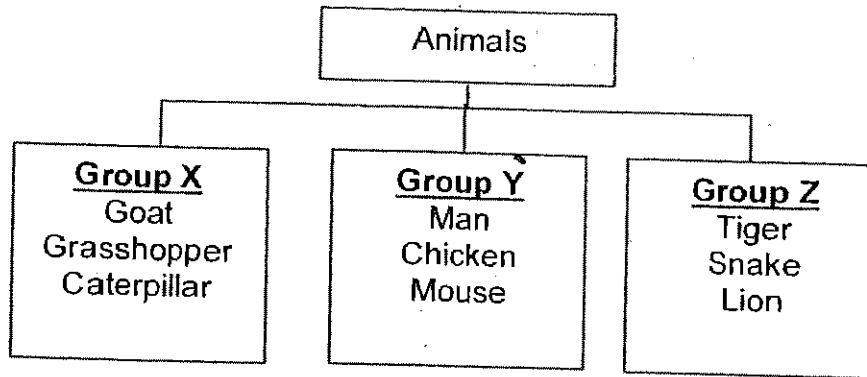


S

Which one of the following animals P, Q, R and S does **not** belong to the same group as the rest?

- (1) Animal P
- (2) Animal Q
- (3) Animal R
- (4) Animal S

19. Some animals are classified into 3 groups as shown below.



Which one of the following pairs can be placed in Group X and Z correctly?

- | | <u>Group X</u> | <u>Group Z</u> |
|-----|----------------|----------------|
| (1) | Man | Zebra |
| (2) | Snail | Crocodile |
| (3) | Whale | Turtle |
| (4) | Chicken | Lobster |

20. Which of the following animals give birth to its young alive?

- (A) Parrot
(B) Horse
(C) Rabbit
(D) Giraffe
(E) Butterfly
- (1) A and B only
(2) C and D only
(3) A and E only
(4) B, C and D only

END OF PAPER I



MAHA BODHI SCHOOL
2007 CONTINUAL ASSESSMENT 1
SCIENCE

Name: _____ ()

Class: Pri 3 _____

Duration: 1 h 15 min (Part I & II)

Date: 1 March 2007

Parent's Signature: _____

Part I	(40 marks)	
Part II	(40 marks)	
Part I & II	(80 marks)	
CA1	(100 marks)	

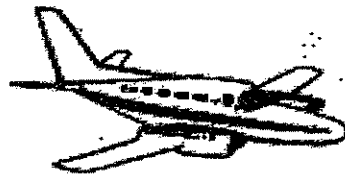
Part II: [40 marks]

Write your answers to questions 21 to 30 in this script.

21. The diagram below shows Object A and Object B.



Object A

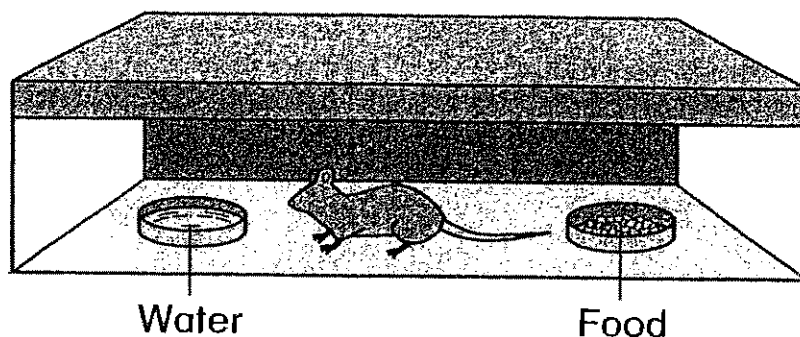


Object B

- (a) State one similarity between Object A and Object B. [2]

- (b) State one difference between Object A and Object B. [2]

22. Melvin went to Malaysia for a one-week holiday. He placed his hamster in a tank with enough water and food to last for one week. He covered the tank to prevent his hamster from escaping as shown in the diagram below.



- (a) What would have happened to Melvin's hamster when he returned from his holiday?

- (b) Explain your answer in (a).

23. The table below shows the weight of a chick over a period of 5 weeks. The chick was fed with food and water daily and weighed at the end of each week.

Week	Weight (g)
1	300
2	350
3	400
4	?
5	500

- (a) What is the possible weight of the chick at the end of Week 4?

- (b) From the above results, what can you conclude about living things?

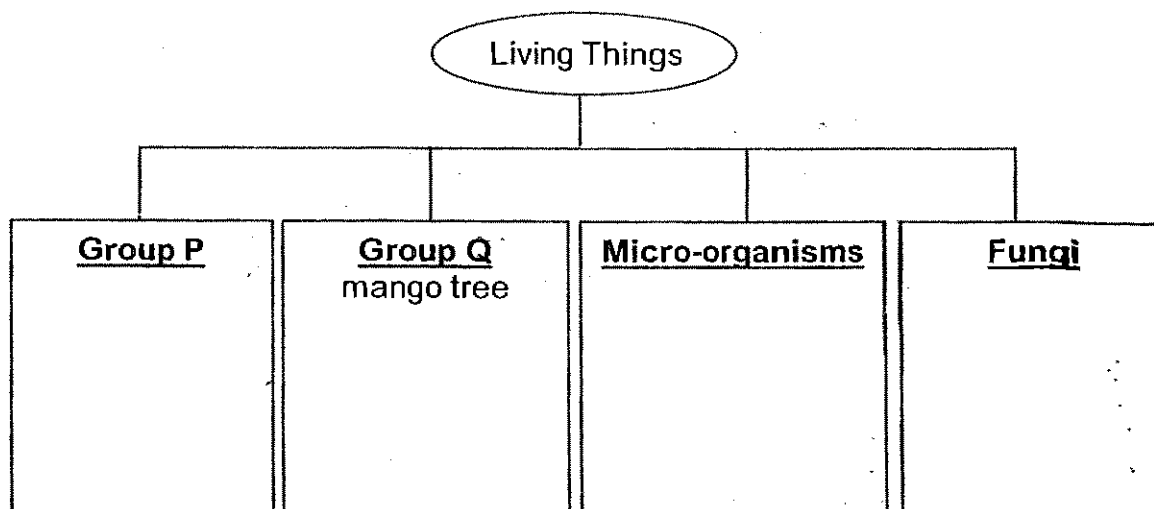
24.

Get a Tutor to go through the Papers
The box below shows some living things.

<http://www.yestuition.sg>

fish	rose	mushroom
bacteria	fern	monkey

- (a) Complete the classification table below using all the living things given in the box. [3]

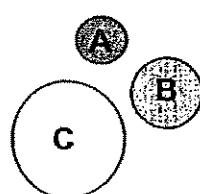


- (b) Give a suitable heading for Group P and Group Q. [2]

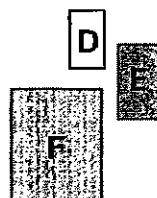
(i) Group P: _____

(ii) Group Q: _____

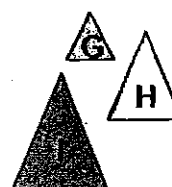
25. David grouped objects A, B, C, D, E, F, G, H and I as shown below.



Group 1



Group 2



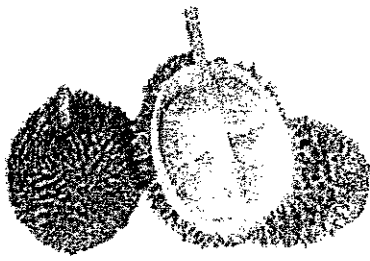
Group 3

List two other ways that David can group objects A, B, C, D, E, F, G, H and I. [2]

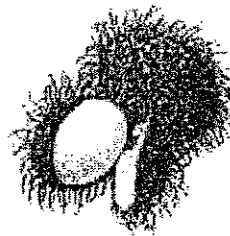
(i) He grouped the objects according to _____

(ii) He grouped the objects according to _____

26. The diagram below shows two fruits X and Y.



Fruit X

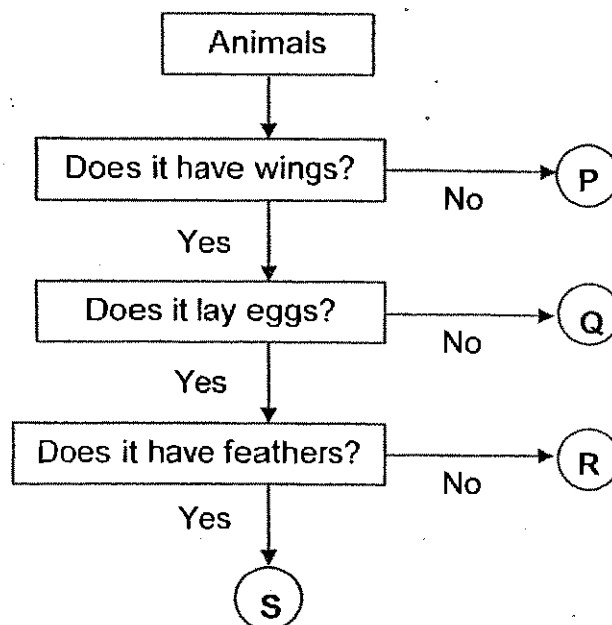


Fruit Y

(a) State one difference between Fruit X and Fruit Y. [2]

(b) State one similarity between Fruit X and Fruit Y. [2]

27. Study the binary key below.



Classify the following animals using the flow chart above.
Which letters P, Q, R and S represent the following animals?

[4]

- (i) Bat : _____
- (ii) Bird : _____
- (iii) Bear : _____
- (iv) Butterfly : _____

Animals

Outer coverings

(a)



• shell

(b)



• feathers

(c)



• scale

(d)

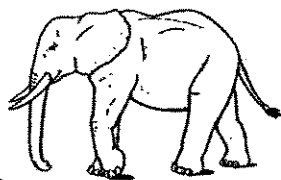


• hair

29. Study the animals below.



tortoise



elephant



giraffe



pig



owl



chicken

(a) Classify the following animals into group P and Q according to the way they reproduce. [3]

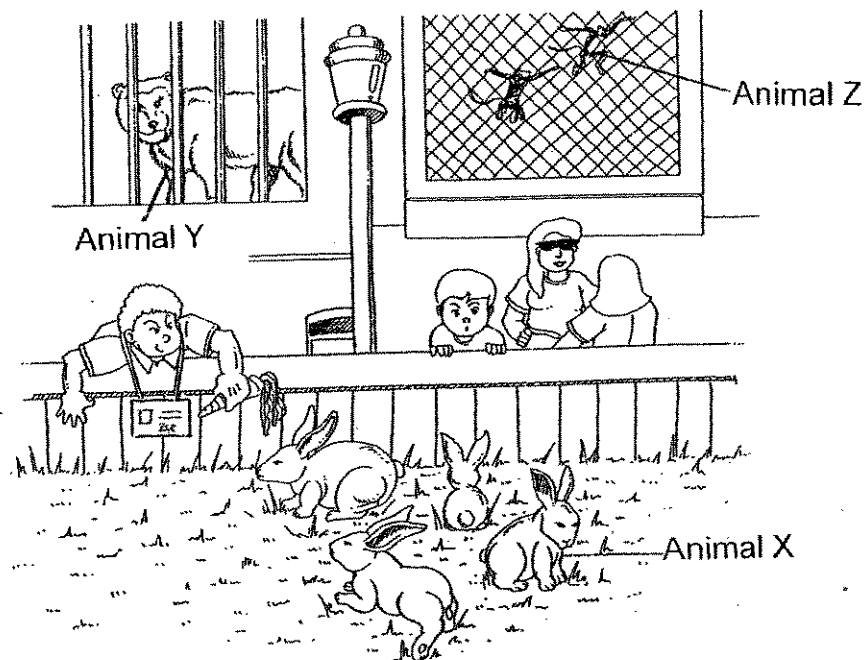
Group P	Group Q

(b) Give a suitable heading for Group P and Group Q. [2]

(i) Group P: _____

(ii) Group Q: _____

30. The diagram below shows a picture of the zoo. Jonathan, the zoo keeper, fed Animal X, Y and Z with carrots and pieces of meat.

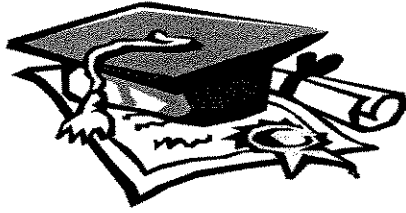


The table below shows what animal X, Y and Z ate.

Animal	Carrot	Pieces of meat
X	✓	
Y		✓
Z	✓	✓

- (a) From the information above, what is the eating habit of Animal X, Y and Z? [3]
- (i) Animal X: _____
- (ii) Animal Y: _____
- (iii) Animal Z: _____
- (b) Name another animal which has similar eating habit as [3]
- (i) Animal X: _____
- (ii) Animal Y: _____
- (iii) Animal Z: _____

END OF PAPER



ANSWER SHEET

MAHA BODHI PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (1)

1. 1
2. 2
3. 1
4. 4
5. 2
6. 1
7. 2
8. 2
9. 3
10. 1
11. 2
12. 1
13. 1
14. 2
15. 1
16. 4
17. 4
18. 3
19. 2
20. 4
- 21) a) They both have wings.
b) Object A has feelers while object B does not.
- 22) a) His hamster died.
b) The hamster is a living thing and it needs air to breathe.
- 23) a) Its weight would be 450g at the end of week 4.
b) Living things can grow.
- 24) a) Group P: fish, monkey
Group Q: rose, fern
Micro- : bacteria
Fungi : mushroom
b) i) animals ii) plants
- 25) i) shade/colour/pattern
ii) sizes
- 26) a) Fruit X has a spiky outer covering While, Fruit Y has a hairy outer Covering.
b) Both Fruit X and Fruit Y do not have a smooth skin.
- 27) i) Q ii) S iii) P iv) R
- 28)

29) a) Group P: elephant, giraffe, pig
Group Q: tortoise, owl, chicken

b) i) Lay eggs

ii) Give birth to young alive

30) a) i) plant eater.

ii) It only likes to eat meat.

iii) plant and animal eater.

b) i) cow

ii) Tiger

iii) chicken

METHODIST GIRLS' SCHOOL (PRIMARY)
CONTINUAL ASSESSMENT 1 – 2007
PRIMARY 3
SCIENCE

Name : _____ ()

Class : Primary 3. _____

Date : 5th March 2007

Part	Maximum Marks	Marks Obtained
A	30	
B	20	
Total Marks	50	

Parent's Signature : _____

Section A : (30 marks)

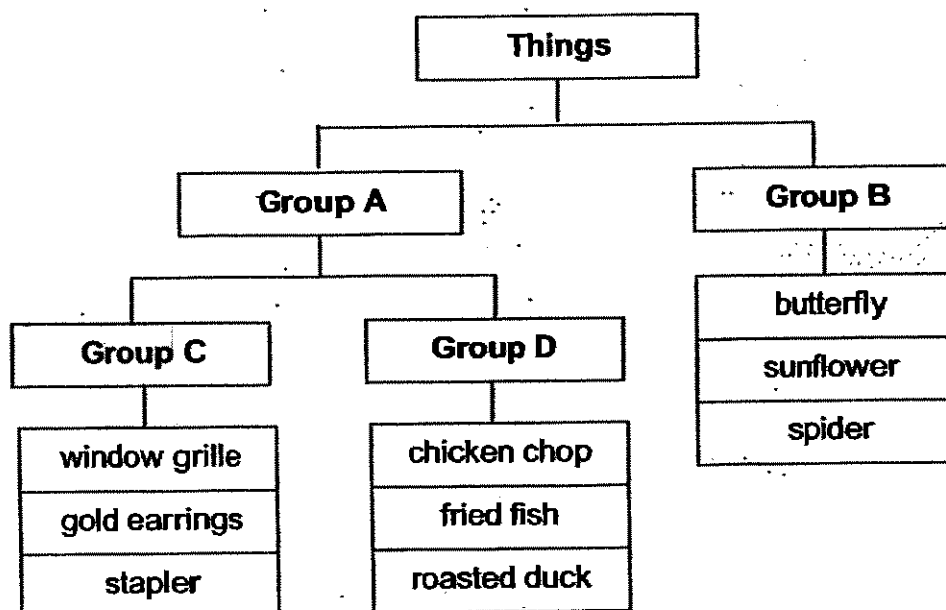
Read each question carefully. Choose the most suitable answer and write its number 1, 2, 3 or 4 in the brackets provided.

1. To ensure the continuity of their own kind on earth, living things _____.

- (1) reproduce
- (2) move on their own
- (3) respond to changes
- (4) move away from danger

()

2. The classification diagram below shows how things are grouped.



Which one of the following sets of heading best describes A, B, C and D?

	A	B	C	D
(1)	Animals	Non-living Things	Once Alive	Never Alive
(2)	Non-living Things	Living Things	Never Alive	Once Alive
(3)	Plants	Animals	Living Things	Never Alive
(4)	Living Things	Non-living Things	Once Alive	Never Alive

()

3. Classifying things helps us to _____.

- A : show clearly how things are similar or different
 B : get things organized so that we can find them easily
 C : study things systematically and see the patterns in things easily

- (1) A and B
 (2) B and C
 (3) A and C
 (4) A, B and C

4. Three girls, Alexandra, Beverly and Charlotte, studied the classification table below.

Feathers	Hair	Scales	Shells
Parrot	Monkey	Guppy	Snail
Penguin	Bear	Shark	Tortoise

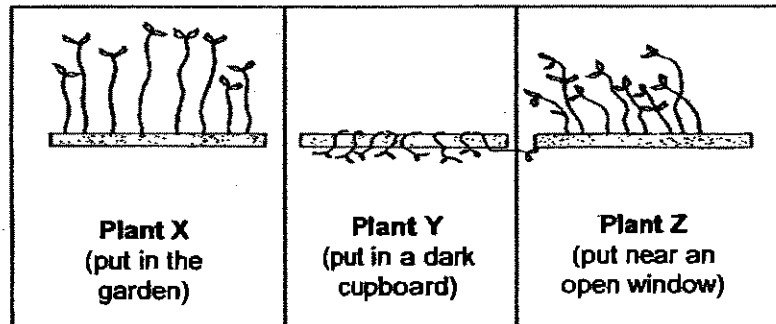
They then made these statements.

- Alexandra : The table shows how a tortoise and a snail are different.
 Beverly : The table shows some animals grouped based on their outer covering.
 Charlotte : The table shows that parrot and penguin have outer body coverings of feathers.

Who made the correct statement?

- (1) Beverly only
 (2) Alexandra only
 (3) Charlotte and Beverly
 (4) Alexandra and Beverly

5. Mona and Amanda grew some plants, Plant X, Plant Y and Plant Z. They then put them in three different places, the garden, a dark cupboard and near an open window. After about two weeks, the following were observed.



Mona said that the experiment was an unfair test because they had forgotten to water Plant Y.

Which other statements below are likely to make this experiment an unfair test?

- A : Different types of seeds were used.
 B : The same type of container was used.
 C : Different types of soil were used to grow the plants.
 D : The same amount of soil was used in each container.

- (1) A and B
 (2) A and C
 (3) B and D
 (4) D and A

()

6. Look at the diagrams below.



Yvonne grouped the above organisms in the same group because they

- (1) grow from seeds
 (2) reproduce from spores
 (3) cannot make their own food
 (4) produce beautiful and fragrant flowers

()

7. Joy placed some animals into two groups.

Group Y	Group Z
Horse	Parrot
Dolphin	Penguin
Zebra	Ostrich

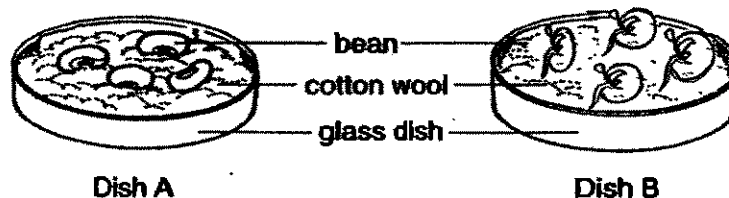
Which of the following are suitable headings for Group Y and Group Z?

	Group Y	Group Z
A:	Animals that live on land	Animals that live in water
B:	Animals that give birth	Animals that lay eggs
C:	Mammals	Birds

- (1) A and B
 (2) A and C
 (3) B and C
 (4) A, B and C

()

8. Alicia placed some beans on some moist cotton wool in two glass dishes, A and B. Then she kept Dish A in a fridge and Dish B in a cupboard in her room. After two days, she noticed the differences as shown below.



What could Alicia conclude from her experiment?

- (1) Beans need water to germinate.
 (2) Beans need warmth to germinate.
 (3) Beans need cotton wool to germinate.
 (4) Beans need to be in the fridge to germinate.

()

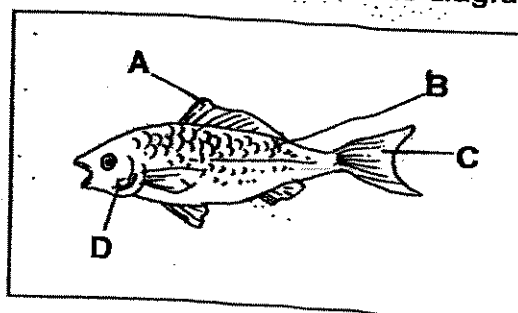
9. The living things below are classified into two groups, P and Q.

P	Q
Desmid Euglena Amoeba	Orchid Dolphin Bear

Which of the following sets are the most suitable headings for the two groups of living things?

	P	Q
(1)	Living things that grow on land.	Living things that grow in water.
(2)	Living things that do not make their own food.	Living things that make their own food.
(3)	Living things that cannot reproduce.	Living things that can reproduce.
(4)	Living things that cannot be seen with the naked eyes.	Living things that can be seen with the naked eyes.

10. 3 girls, Jolene, Selene and Louisa, studied the diagram below.



Then, they made the following statements.

- Jolene : Part B protects the body of the fish. ✓
 Selene : Part D helps the fish to swim away from danger. ✗
 Louisa : Part A and C help the fish to swim and keep its balance. ✓

Who made the incorrect statement/s?

- (1) Louisa only
 (2) Selene only
 (3) Louisa and Selene
 (4) Jolene and Louisa

11. Vanessa learnt that the more elastic a string is, the more it can stretch. After that, she stretched four different types of string using the same strength. Then she measured and recorded the increase in length of each string in the table below.

String made of material	Increase in length
P	0.2 cm
Q	0.7 cm
R	0.8 cm
S	0.5 cm

From the results in the table above, which is the least elastic string?

- (1) P
- (2) Q
- (3) R
- (4) S

()

12. For the test carried out in Question 11 to be a fair one, which of the following variable/s should be kept the same?

- A : The colour of the string
- B : The thickness of the string
- C : The length of string before it was stretched

- (1) A only
- (2) B only
- (3) A and B
- (4) B and C

()

13. Li-Ann compared the hardness of four objects, A, B, C and D, by scratching them with different rulers.

She then recorded her observations in the table below, using a tick (✓) to indicate the presence of scratch marks on the objects and using a cross (×) to indicate the absence of scratch marks on the objects.





Objects	Presence of scratch marks made by		
	Metal ruler	Wooden ruler	Plastic ruler
A	×	×	×
B	✓	✓	✓
C	✓	×	×
D	✓	✓	×

From the table above, which is the softest object?

- (1) A
- (2) B
- (3) C
- (4) D

(-)

14. Four objects are classified into two groups as shown below.

Group X	Group Y
 paper cup	 needle
 storybook	 key

The objects are classified according to _____.

- (1) whether they are breakable
- (2) their ability to float on water
- (3) what materials they are made of
- (4) whether they allow light to pass through

()

15. The table below shows some characteristics of materials.

Characteristics	
A	: Easily breakable
B	: Not easily breakable
C	: Allows light to pass through
D	: Does not allow light to pass through.

Which of the characteristics above would be important when making lenses for a pair of spectacles for a young child?

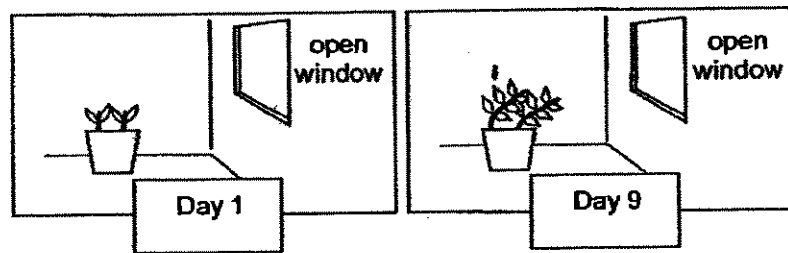
- (1) A and C
- (2) B and D
- (3) A and D
- (4) B and C

()

Section B : (20 marks)

Write your answers in the space provided.

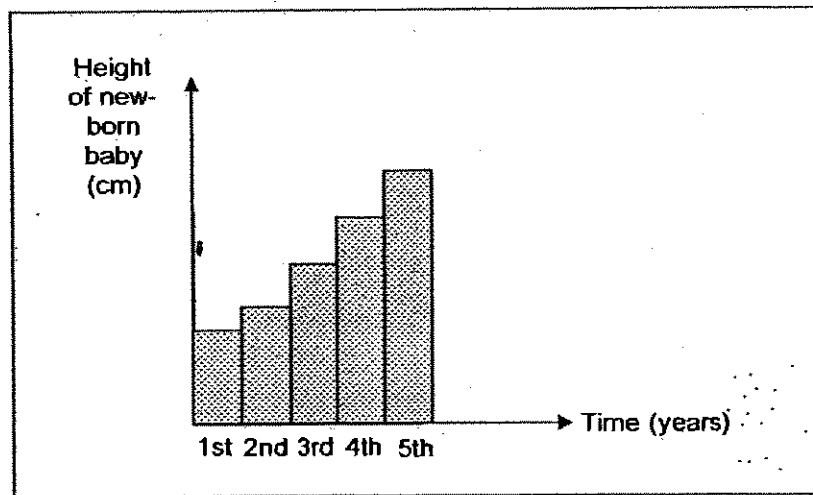
16. A pot of seedlings was placed on the floor near an open window. The diagrams below show the pot of seedlings on two different days, Day 1 and Day 9.



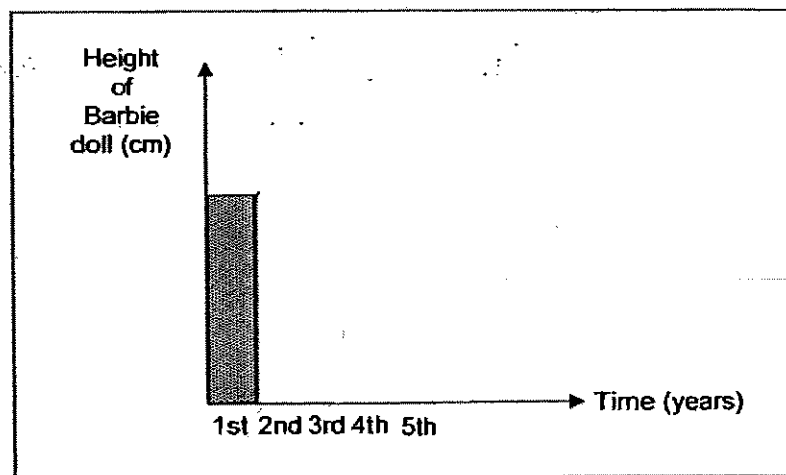
- a) Give one difference that you observe in the two diagrams. (1m)

- b) From your observation in a), what can you conclude about plants? (1m)

17. The graph below shows correctly the height of a newborn baby over a period of 5 years.



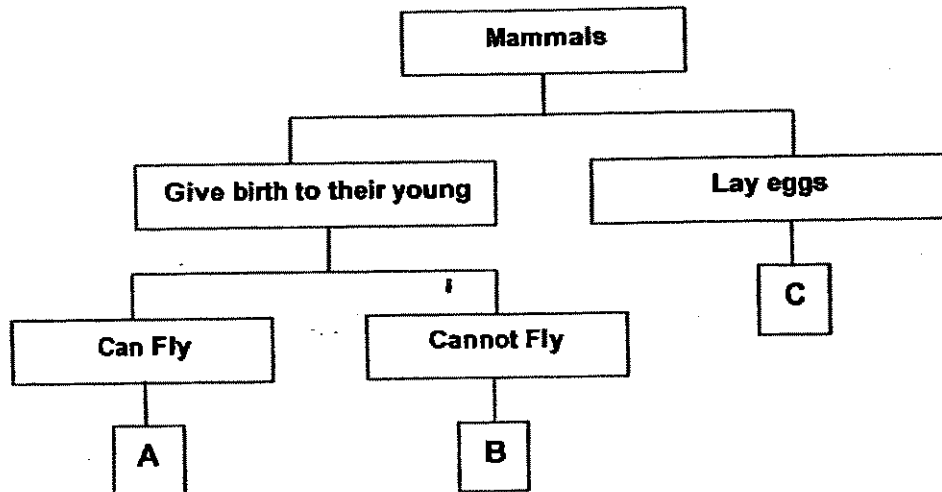
- a) In the graph provided below, draw correctly the height of a Barbie doll over a period of 5 years. The first year is done for you. (1m)



- b) Based on the observation above, state one characteristic of the Barbie doll. (1m)

The Barbie doll _____

18. Study the classification chart below carefully.



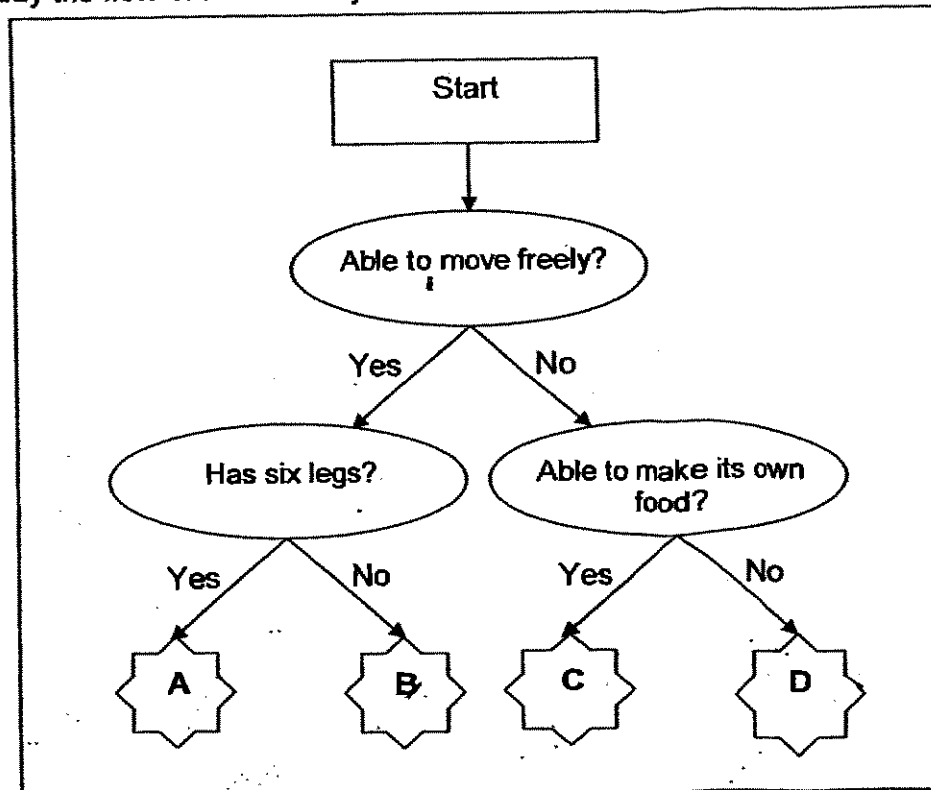
- a) Based on the classification chart above, state a similarity and a difference between Animal A and Animal B. (2m)

Similarity : _____

Difference: _____

- b) What could Animal C be? (1m)

19. Study the flow chart carefully.



Put the four living things given below under the letter where they belong. (2m)

rose plant	toadstool	snake	moth
------------	-----------	-------	------

A	B	C	D

Section B : Open-Ended Questions (20 marks)

For questions 11 to 19, write your answers in this booklet. The maximum number of marks which can be rewarded is shown in brackets [] at the end of each question or part-question.

11. All living things reproduce. Name the two ways how animals can reproduce. [2]

(i) _____

(ii) _____

12. The height of a rose plant was measured for a few days and recorded in the table below.

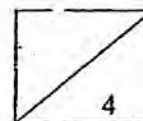
Day	Height / cm
3	2
6	4
9	6
12	8

- (a) What was the height of the rose plant on the 9th day?

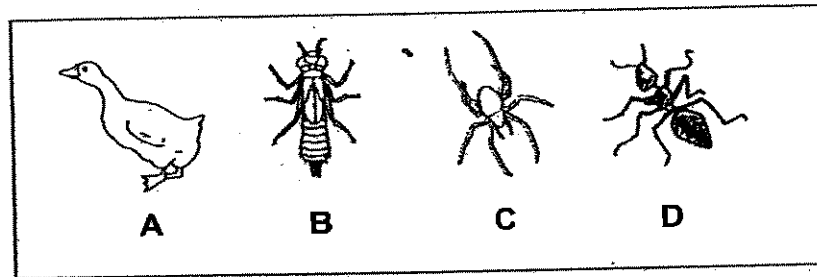
[1]

- (b) What do you think was the height of the rose plant on the 11th day?

[1]



20. Look at the diagrams of the 4 animals shown below.



- a) Which of the above animals are insects? (1m)

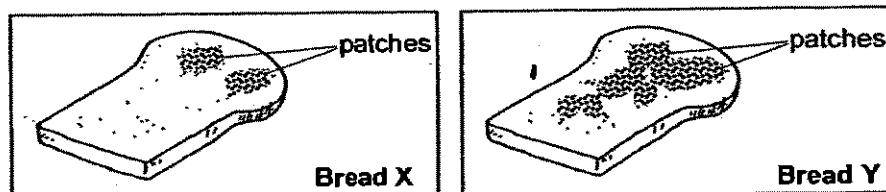
- b) Give 2 characteristics of insects to support your answer in a). (2m)

i)

ii)

- 21 A slice of bread, X, was kept in a plastic container. A similar slice of bread, Y, was sprayed with some water first before it was kept in another similar plastic container. Both containers were then placed in a cupboard.

The diagrams below show the observation a week later.

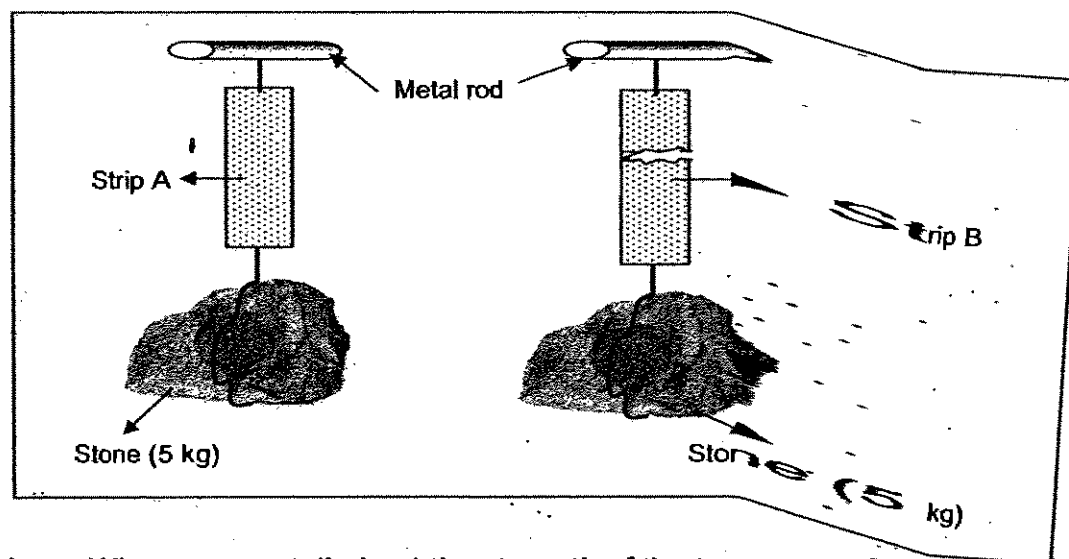


- a) What were those patches on the bread? (1m)

- b) What do you observe about the patches on the two slices of bread? (1m)

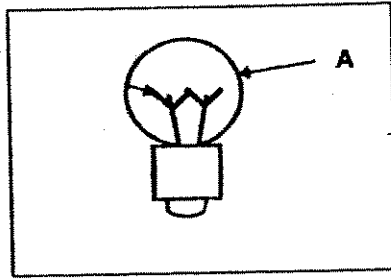
- c) From the above observation, what is needed for the patches to grow? (1m)

22. The diagrams below show the observation made when a heavy stone was hung first onto Strip A and then, onto Strip B. Although Strip A and Strip B were made of different materials, they both were of the same thickness and size.



- a) What can you tell about the strength of the two strips of materials? (1m)
- _____
- _____
- b) What material could Strip A and Strip B be? (1m)
- Strip A could be _____
- Strip B could be _____
- c) Based on the observation above, we can conclude that the strength of a material is measured by the ability of the material to _____ (1m)
- _____

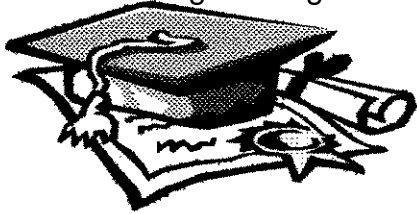
23. The picture below shows a light bulb.



In the table below, state the material and the property needed to make part A.
(2m)

Part of the light bulb	Type of material	Property of the material
A		

End of Paper
Please check your work thoroughly!



ANSWER SHEET

M G S PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (1)

1.1

2.2

3.4

4.3

5.2

6.2

7.3

8.2

9.4

10. 2

11. 1

12. 4

13. 2

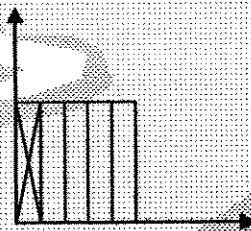
14. 3

15. 4

16)a) On day 1, there were very little leaves, but on day 9 there were a lot of leaves growing.

b) I would conclude that plant grow.

17)a)



b) The Barbie doll is a non-living thing and does not grow.

18)a) Similarity: They both give-birth to their young alive.
Difference: Animal A can fly while Animal B can't.

b) Animal C could be a platypus.

19) A: moth B: snake C: rose plant
D: toadstool

20)a) B and D are insects.

b) i) Insects have three pairs of legs.

ii) Insects have three body parts- head, thorax and abdomen.

21)a) The patches on the bread were bread Mould.

b) more mould than bread X.

c) The patches need water and dark places to grow.

22)a) Strip A is stronger than strip B.

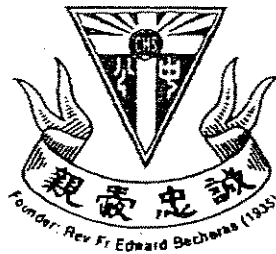
b)A:nylon

B:cloth

c)lift heavy things without breaking or tearing.

23)glass: Because it is a insulator of electricity.

---end---



**CATHOLIC HIGH SCHOOL
PRIMARY THREE
CONTINUAL ASSESSMENT 1, 2007**

SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 1 March 2007

BOOKLET A

**10 Questions
20 Marks**

Total Time for Booklets A & B : 1 hour

Instructions to Candidates

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

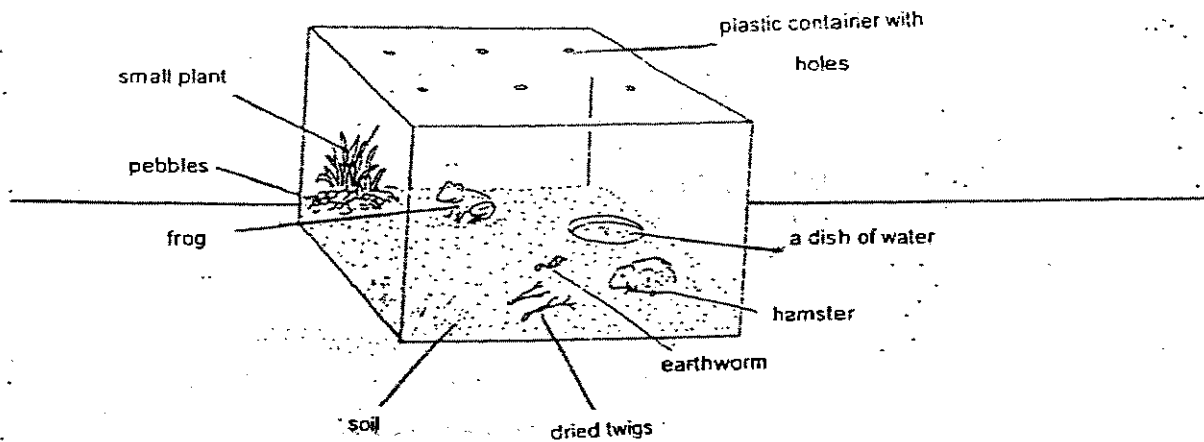
Section A : Multiple Choice Questions (20 marks)

For each question from 1 to 10, four options are given. One of them is the most suitable answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. What is the outer covering of a bird?

- (1) Hair
- (2) Scales
- (3) Feathers
- (4) Moist skin

Look at the picture below and answer Questions 2 and 3.



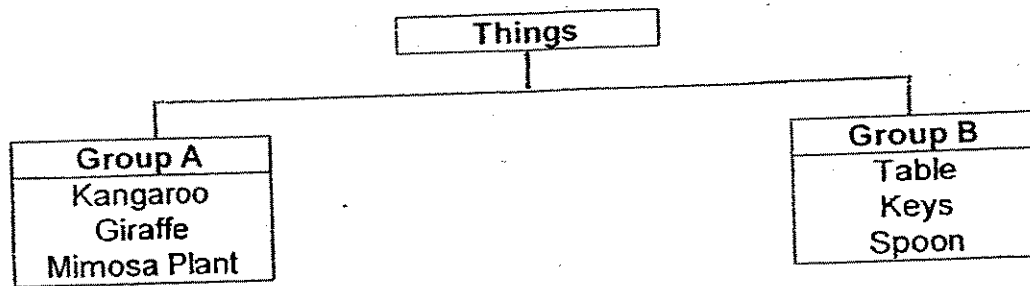
2. How many living things are there in the tank?

- (1) Three
- (2) Four
- (3) Five
- (4) Six

3. If the water in the dish dries up, the hamster and the frog will die after a few days. What does this tell you about living things?

- (1) Living things need air.
- (2) Living things need food.
- (3) Living things need water.
- (4) Living things need to move around.

4. Study the table below.



Which one of the following can be placed in Group A?

5. The following are statements made by two students describing one of the characteristics of living things.

Mark : Kittens become cats.
Anthony : Tadpoles become frogs.

Which one of the following characteristics of living things do the statements above describe?

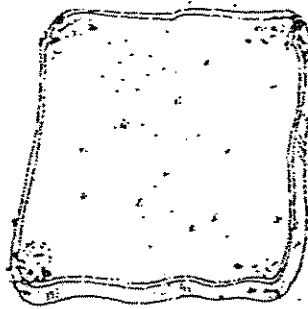
6. Which one of the following statements does not correctly describe a mammal?

- (1) Mammals are warm-blooded.
- (2) Mammals are covered with hair.
- (3) Mammals feed their young with milk.
- (4) Mammals cannot move freely on their own.

7. Which one of the following is a flowering plant?

- (1) Pine
- (2) Moss
- (3) Orchid
- (4) Juniper

8. A piece of moist bread was left on a table in the kitchen. After a few days, patches of thread-like substance were found growing on the bread. After another few days, tiny black spots were formed.



What were the thread-like substance that grew on the bread?

- (1) Moss
- (2) Yeast
- (3) Algae
- (4) Mould

9. Five boys made the following statements about insects.

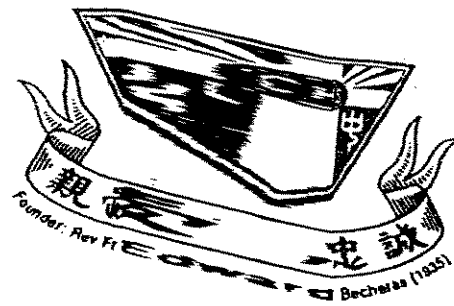
- | | |
|--------|---|
| Caleb | : All insects have six legs. |
| Jacob | : All insects have a pair of feelers. |
| Nelson | : All insects have three body parts. |
| Eugene | : All insects have two pairs of wings. |
| Victor | : All insects reproduce by laying eggs. |

Which boys made the correct statements about insects?

- (1) Eugene, Nelson and Victor only
- (2) Eugene, Jacob and Nelson only
- (3) Caleb, Jacob, Nelson and Victor only
- (4) Caleb, Jacob, Eugene and Victor only

10. Which pair of animals does not belong to the same animal group?

- (1) Whale and bat
- (2) Hamster and rabbit
- (3) Penguin and seagull
- (4) Clownfish and silverfish



CATHOLIC HIGH SCHOOL
PRIMARY THREE
CONTINUAL ASSESSMENT 1, 2007
SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 1 March 2007

9 Questions
 20 Marks

BOOKLET B

Total Time for Booklets A & B : 1 hour

Instructions to Candidates

Do not open this booklet until you are told to do so.
 Follow all instructions carefully.
 Answer all questions.

Parent's Signature: _____

Date: _____

Score	
Section A	20
Section B	20
Total	40

Section B : Open-Ended Questions (20 marks)

For questions 11 to 19, write your answers in this booklet. The maximum number of marks which can be rewarded is shown in brackets [] at the end of each question or part-question.

11. All living things reproduce. Name the two ways how animals can reproduce. [2]

(i) _____

(ii) _____

12. The height of a rose plant was measured for a few days and recorded in the table below.

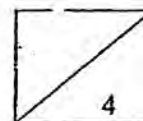
Day	Height / cm
3	2
6	4
9	6
12	8

- (a) What was the height of the rose plant on the 9th day?

[1]

- (b) What do you think was the height of the rose plant on the 11th day?

[1]



13. Read the following statements carefully. In the boxes provided, write 'T' if the statements are true or 'F' if the statements are false. [3]

(a) All birds can fly.

(b) All living things grow.

(c) Plants can respond to light.

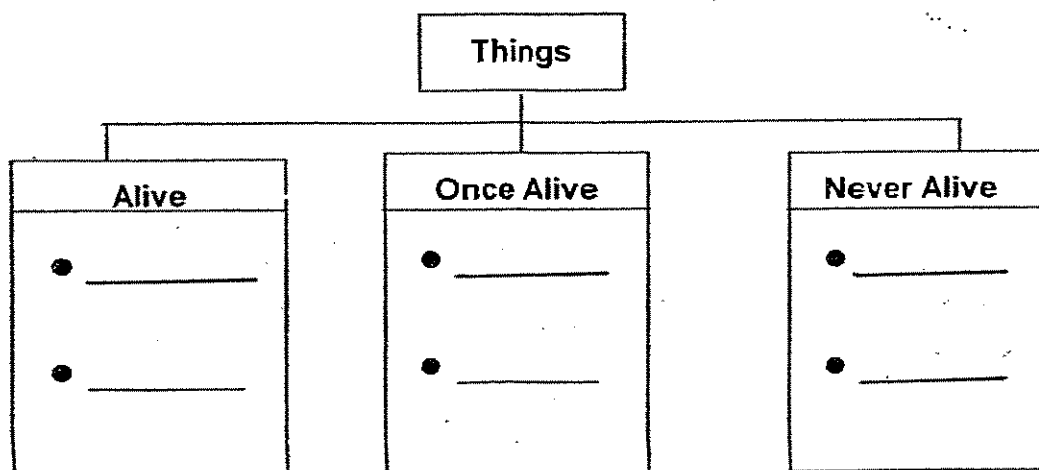
(d) Plants can make their own food.

(e) All fishes reproduce by laying eggs.

(f) My Science textbook was made of materials that was once alive.

14. Classify the 4 items listed under the correct headings in the classification table below. Use each item once only. [2]

Rubber-Band	Stone	Cardboard	Chicken
-------------	-------	-----------	---------



15. Sue accidentally stepped on her cat's tail. Her cat gave out a loud meow and ran to hide under the sofa. List two characteristics of living things that best describes the cat's behaviour. [2]

16. Fill in the blanks with a most suitable word. [3]

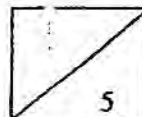
Living things may be classified into four main groups. They are

animals, plants, _____ and _____.

Plants, unlike animals, can make their own _____ using

carbon dioxide and _____ in the presence of

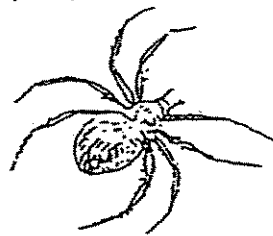
_____. Fungi feed on _____ matter.



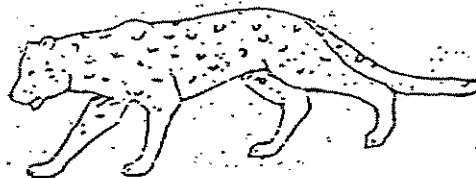
17. For each of the following animals below, state the type of outer covering they have. [2]

Animal	Type of Outer Covering
a) Orang-Utan	
b) Molly	
c) Owl	
d) Seal	

18. Based on only what you can see from the pictures, write down two differences between Animal A and Animal B. (Do not compare their sizes and shapes.) [2]



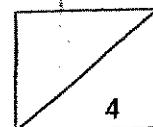
Animal A



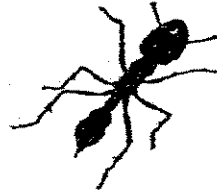
Animal B

Difference (i): _____

Difference (ii): _____



19. The diagram below shows an animal.



- (a) Which group of animals does the animal above belong to?

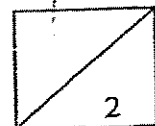
_____ [1]

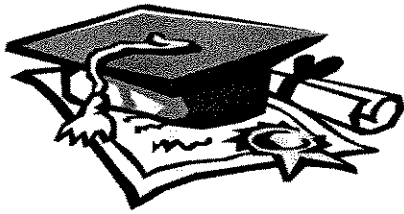
- (b) Explain your answer in (a).

_____ [1]

End of Paper

Check your work!





ANSWER SHEET

CATHOLIC HIGH PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (1)

1. 3
2. 2
3. 3
4. 1
5. 4
6. 4
7. 3
8. 4
9. 3
10. 4
- 11) i) Animals can reproduce by laying egg.
ii) Animals can reproduce by giving birth to young.
- 12) a) It is 6 cm.
b) It will be 7 cm.
- 13) a) F b) T c) T d) T e) F f) T
- 14) Alive once Alive Never Alive
Chicken Cardboard Stone
Rubber band
- 15) Living things can respond to changes.
Living things can move by themselves.
- 16) fungi, micro-organisms, food, water, Sunlight, waste.
- 17) a) Fur/hair b) Scales c) feathers
d) hair
- 18) i) Animal A has 8 legs but Animal B has 4 legs.
ii) Animal B has no tail but Animal B has a long tail.
- 19) a) Insects.
b) It is has 6 legs.

**AI TONG SCHOOL****2007 SEMESTRAL ASSESSMENT (1)
PRIMARY THREE SCIENCE****DURATION: 1h 30 min****DATE: 15th May 2007****INSTRUCTIONS****Do not open the booklet until you are told to do so.****Follow all instructions.****Answer all questions.****Name: _____ ()****Class: Primary 3 _____****Parent's Signature: _____****Date: _____**

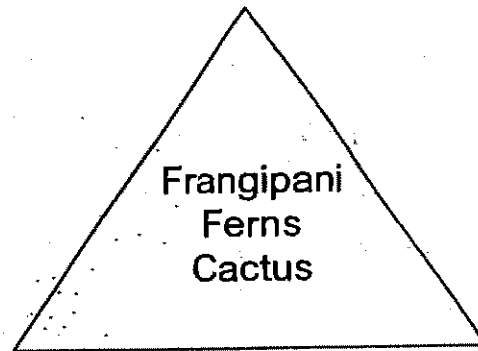
Practical Assessment	12
Written Assessment	88
Total	100

Section A (30 x 2 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1.



Which one of the following pairs belongs to the above group?

- (1) hippopotamus and mushroom
- (2) mycobacteria and bacillus
- (3) hibiscus and rose plant
- (4) stinkhorn and lioness

2. Which of the following is **not** a characteristic of all animals?

- (1) reproduce by giving birth to young alive
- (2) move on their own
- (3) need food, air and water to survive
- (4) respond to changes around them

3. All the things in one of the following groups will die if there is no air. Which group is it?

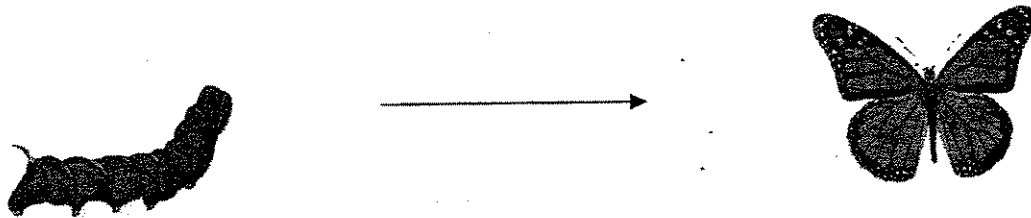
- (1) zebra, allamanda and water
- (2) ball, television and woman
- (3) kingfisher, bougainvillea and meerkats
- (4) platypus, spiny anteater and socks

4. A robotic cat can wag its tail and mew when its head is patted. It can sit, run and lie down too. Why isn't it a living thing?

A It cannot grow.
B It cannot move.
C It cannot reproduce.
D It cannot respond to stimulus

- (1) A only
(2) C only
(3) B and D
(4) A and C

5. The diagram shows a caterpillar changing into a butterfly.



Which characteristic of living things is shown?

- (1) It needs food.
(2) It can grow.
(3) It can move
(4) It can breathe.

6. Study the two groups of animals below carefully.

<u>Group A</u>
Falcon
Parrot
Dove

<u>Group B</u>
Whale
Sea Lion
Seal

Which pair of animals can be placed in Group A and B respectively?

	<u>Group A</u>
(1)	Mynah
(2)	Eagle
(3)	Sparrow
(4)	Pig

<u>Group B</u>
Sea Horse
Shark
Dolphin
Sea Otter

7.



Which type of outer body covering does this animal have?

- (1) Hair
- (2) Feathers
- (3) Scales
- (4) Shell

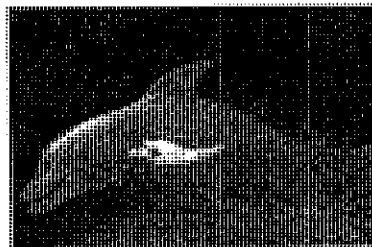
8. The statements below describe an animal.

- Its body is covered with feathers.
- It lays eggs.
- It can fly.

Which one of the animals named below do the statements describe?

- (1) Bat
- (2) Beetle
- (3) Goldfish
- (4) Falcon

9. The pictures show two animals that can be found in the sea.



The salmon does not belong to the group because _____.

- (1) it has fins
- (2) it is covered with scales
- (3) it provides milk
- (4) it gives birth to its young

10. Birds have feathers as their outer body coverings. Besides helping the birds to fly, the feathers _____.

- (1) make them strong
- (2) keep them cool
- (3) keep them warm
- (4) attract hunters to them

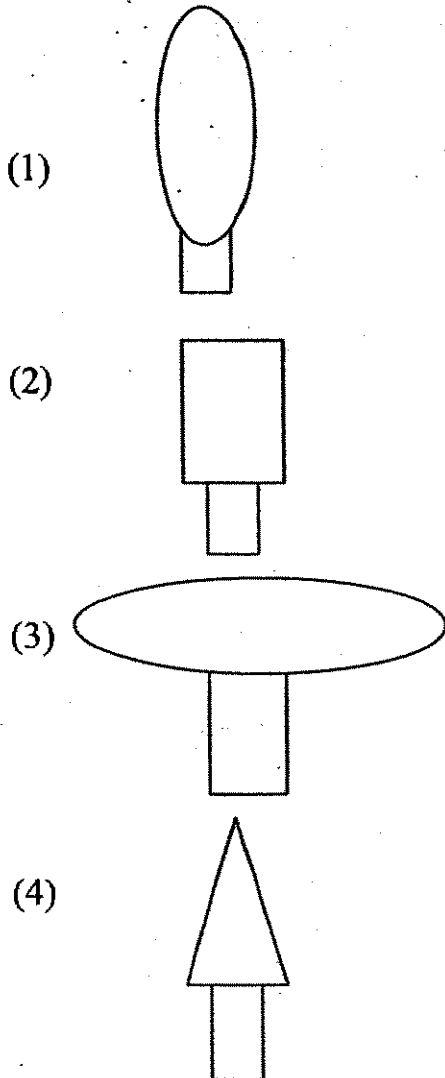
11. How is a sparrow and a plane different in the way they fly?

- (1) A plane flaps its wings but a bird does not.
- (2) A plane needs food to make it fly but a bird does not need any
- (3) A bird flies by itself but a plane needs a pilot to make it fly.
- (4) A bird needs a pilot to make it fly but a plane does not need one.

12. Which one of the following statements about a bat is correct?

- (1) A bat can lay eggs.
- (2) A bat has feathers.
- (3) A bat has hair.
- (4) A bat is a bird.

13. The usefulness of trees to provide shade depends on their shape. Which one of the following shapes provides the most shade?



14. The stem of a plant _____.

- (1) supports the branches and leaves
- (2) makes food for the plant
- (3) takes in water from the soil
- (4) grows downwards

15. The tall, thick and woody stem of a tree has an outer covering. The outer covering is called the _____.

- (1) trunk
- (2) bark
- (3) skin
- (4) branch

16. Study the two groups of plants below.

Rose plant
Rain tree

Maidenhair fern
Bird's nest fern

Which of the following pairs belongs to the above groups?

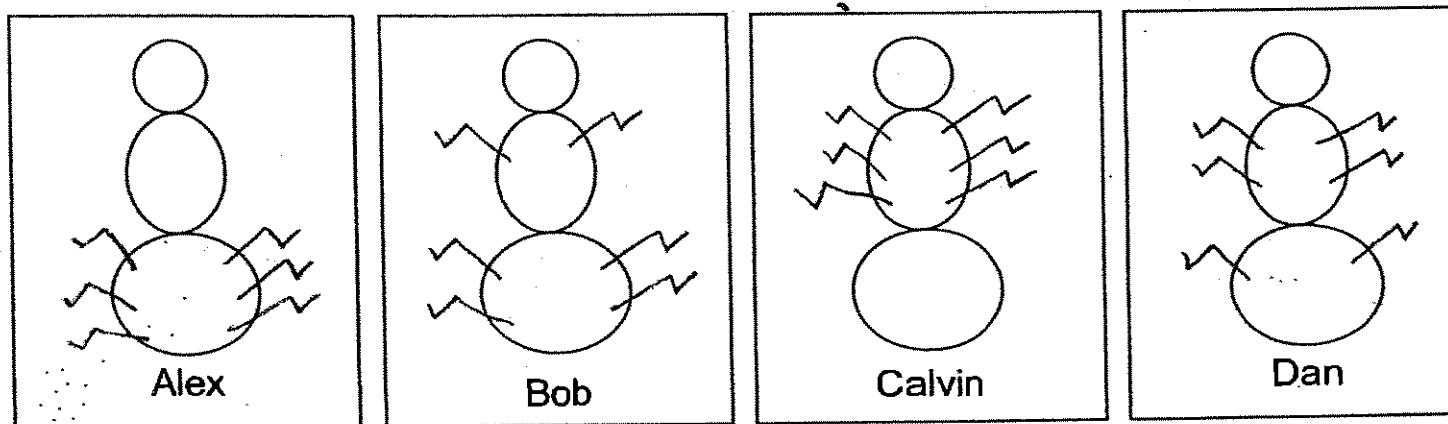
Group A

- (1) Papaya tree
- (2) Mango tree
- (3) Allamanda plant
- (4) Bougainvillea plant

Group B

Moss
Mould
Pong Pong tree
Starfruit plant

17. Alex, Bob, Calvin and Dan observed an insect and each drew a picture as shown below.



Which pupil drew the correct position of the legs of the insect?

- (1) Alex
- (2) Bob
- (3) Calvin
- (4) Dan

18.

X	Y
Mimosa	Cattail
Maidenhair fern	Duckweed
Rambutan tree	Water Lily

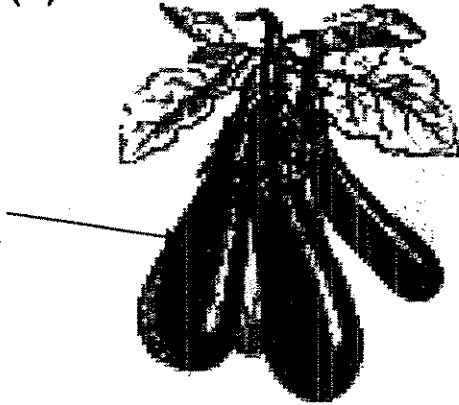
What could X and Y be?

- X**
- (1) Flowering Plants
 - (2) Land Plants
 - (3) Fungi
 - (4) Living Things

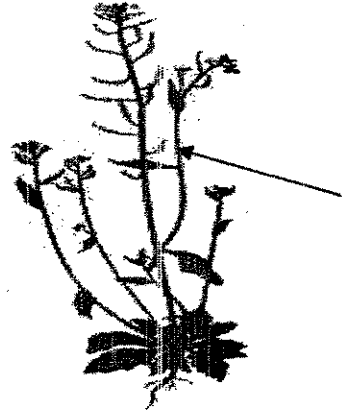
- Y**
- Non-flowering Plants
 - Water Plants
 - Micro-organisms
 - Non-living Things

19. Which one of the following pictures shows the arrow pointing to the part that makes food for the plant?

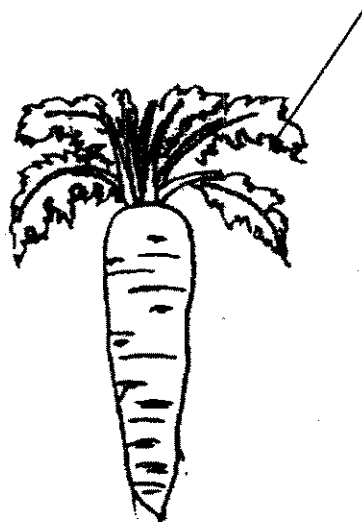
(1)



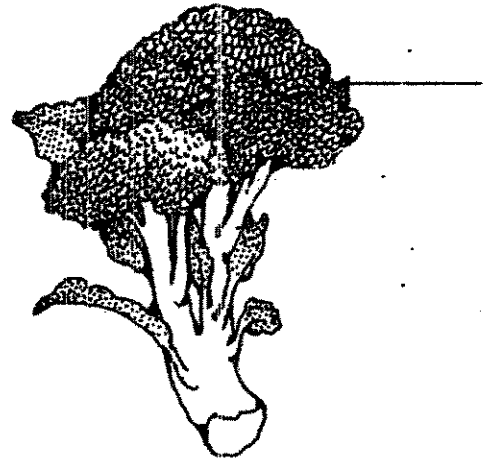
(2)



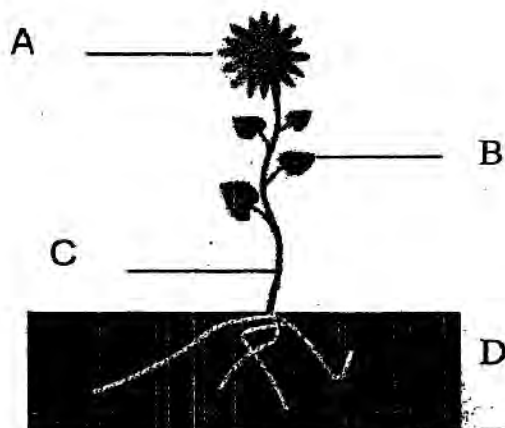
(3)



(4)



20. The part of a plant that becomes a fruit is the part marked _____.



- (1) A
- (2) B
- (3) C
- (4) D

21. Which pair of living things below has been correctly classified?

	Micro-organisms	Fungi
(1)	Yeast	Mould
(2)	Puff balls	Mushroom
(3)	Jew's ears	Bracket Fungus
(4)	Moss	Bird's nest fern

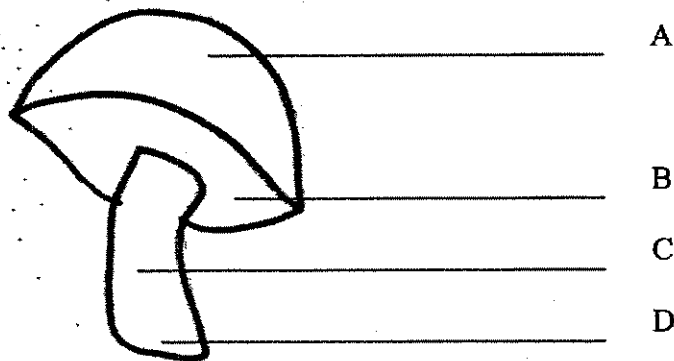
22. Which one of the statements about the bird's nest fern is true?

- (1) It reproduces by seeds.
- (2) It depends on another plant for food.
- (3) It does not have chlorophyll.
- (4) It does not produce flowers.

23. Which one of the following group consists of only micro-organisms?

- (1) mould, toadstool
- (2) moss, ferns
- (3) bacteria, yeast
- (4) yeast, toadstool

24.



In which part of the mushroom, A, B, C or D, are spores formed?

- (1) A
- (2) B
- (3) C
- (4) D

25. Which of the following can be obtained from different types of rocks?

- (1) silk, glass and plastic
- (2) sand, clay and stones
- (3) gold, silver and aluminium
- (4) leather, rubber and wood

26. Clay is most suitable for making _____.

- (1) bottles and window panes
- (2) shoes and tables
- (3) pots and tiles
- (4) tyres and erasers

27. Which one of these objects is not made from a material which was once alive?

- (1) a glass table top
- (2) a cotton shirt
- (3) a rubber tyre
- (4) a leather handbag

28. Many parents buy cups made of plastic instead of ceramic for their children because plastic is _____.

- A light
- B flexible
- C not easily broken
- D smooth

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, C and D

29.



Which one of the statements below correctly describes the material of the armour that the knight is wearing?

- (1) It floats on water.
- (2) It is flexible.
- (3) It comes from plants.
- (4) It is hard and strong.

30. Why is nylon used to make the canopy of the umbrella instead of cotton cloth?

- (1) It is strong and stiff.
- (2) It is hard.
- (3) It is waterproof.
- (4) It is colourful.

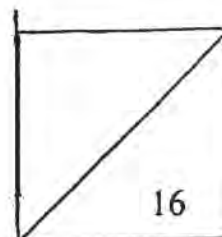
Name: _____ ()
 Class P3 ()

Section B: (16 marks)

Fill in the blanks with the correct answers. Use each word **ONCE** only.

feelers	yeast	oval	die
hard	chlorophyll	mould	hair
round	live	scales	wings
strong	palm	transparent	flexible

31. Animals and plants do not _____ forever.
32. The _____ of an insect are found on the head.
33. The dolphin has _____ on its body.
34. Plants can make their own food because they have _____.
35. The leaf of a tapioca plant has the shape of a _____.
36. _____ is a type of fungi that spoils our food.
37. Swimming goggles should be _____ so that swimmers can see through them.
38. It is possible to roll up a garden hose because the material it is made of is _____.



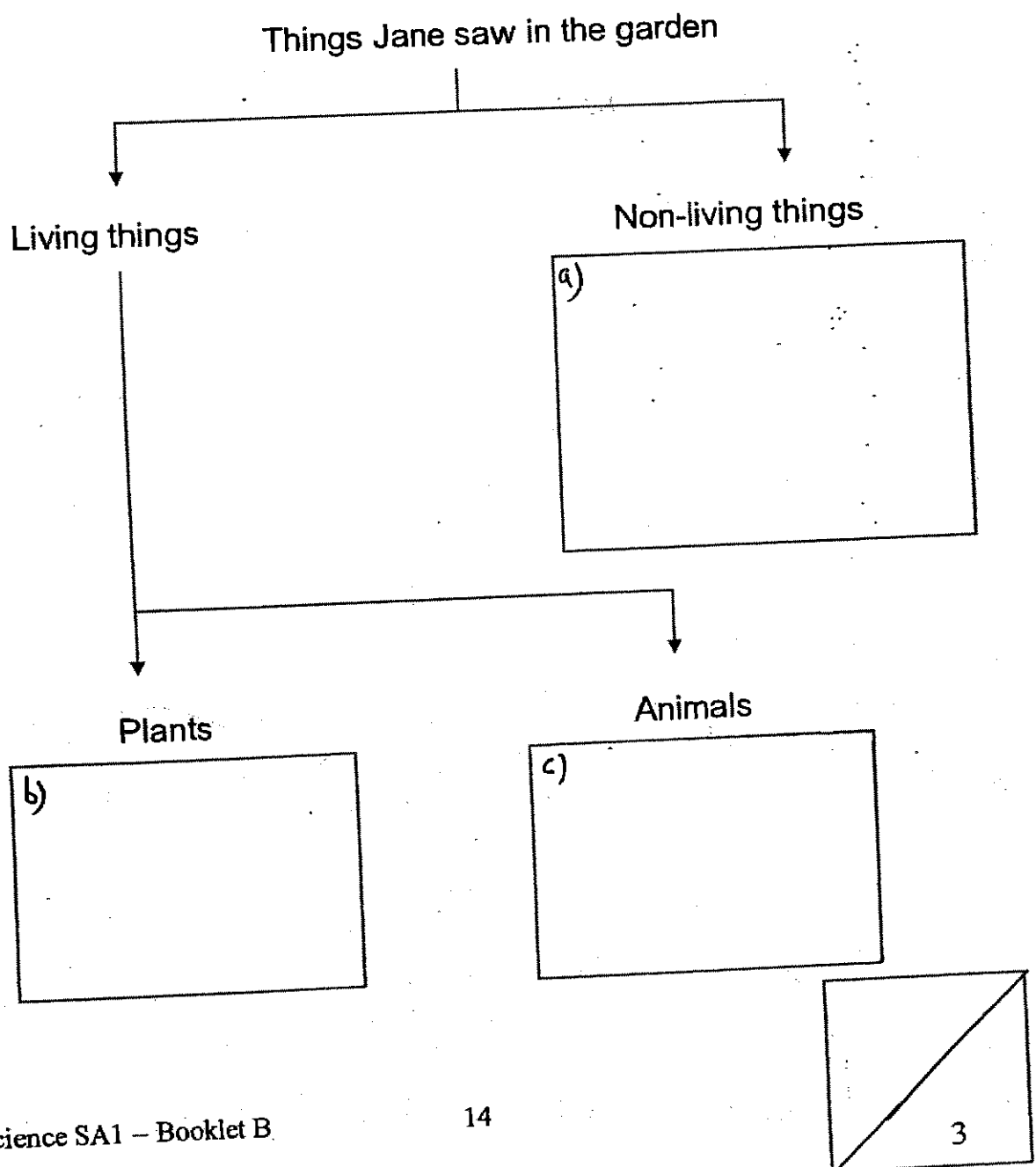
Section C: (4 x 3 marks = 12 marks)

Read the questions carefully and write down your answers in the spaces provided.

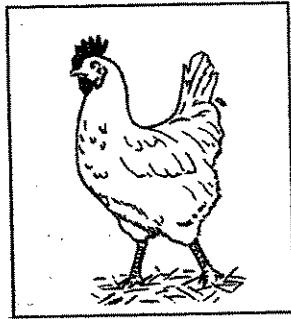
39. Jane saw the following things while she was at the garden.

damselfly	bench	spade
grass	ant	moss

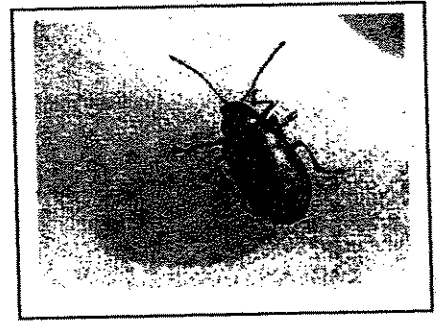
Show Jane how she could classify the things according to the classification table below. [3]



40. The pictures below show two living things - a hen and a beetle.



hen



beetle

a) How similar are they in the way they reproduce?

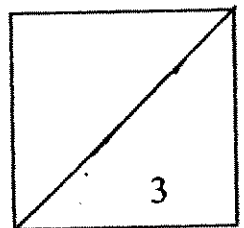
[1]

b) How are they different?

[1]

c) Name another living thing that has the same characteristics as the beetle but different from those characteristics of the hen.

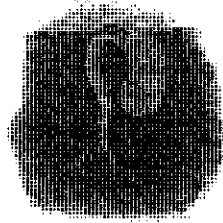
[1]



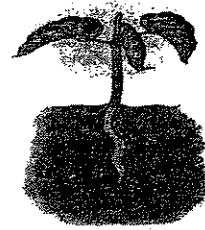
41. The diagram shows the stages in the growth of a bean seed.



A



B

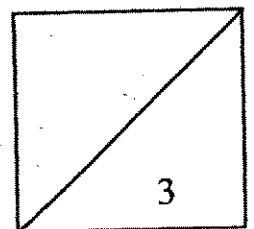


C

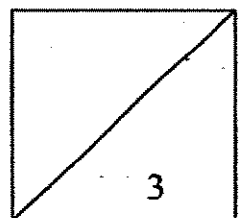
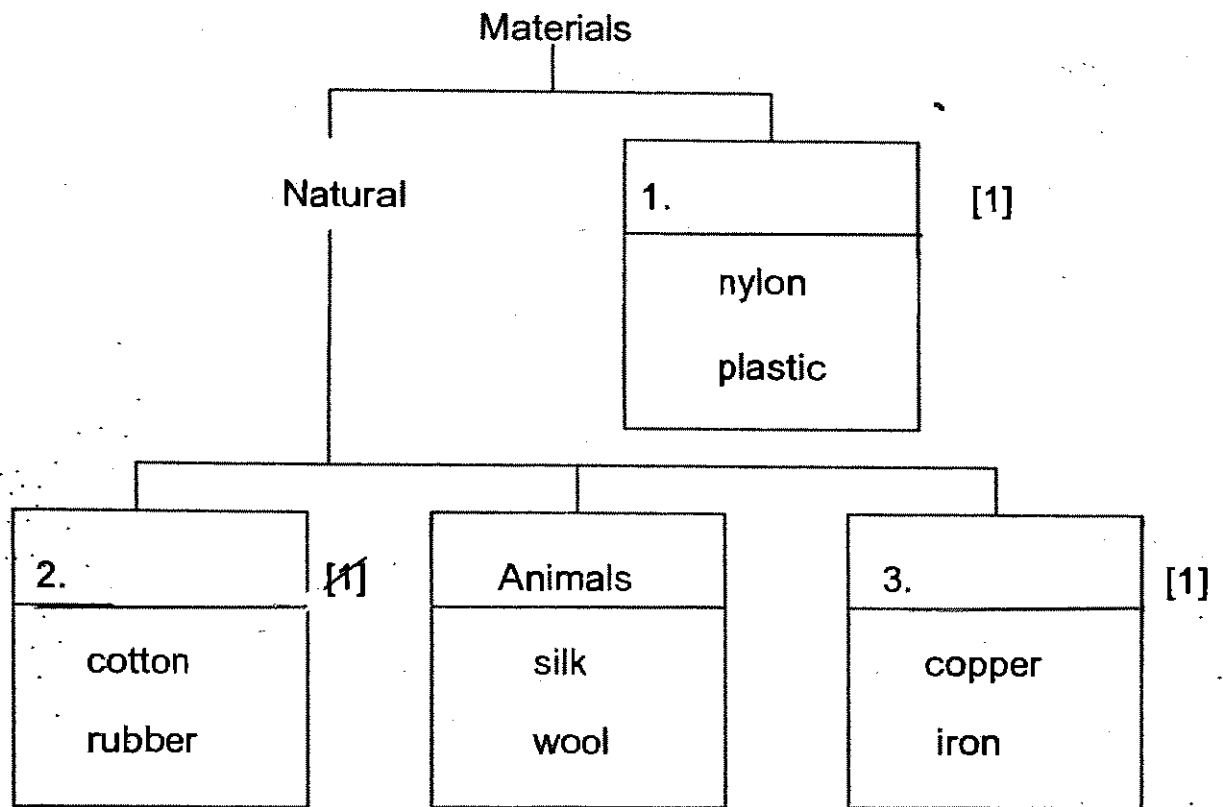
(a) Besides warmth, a seed needs _____ and _____ to germinate. [2]

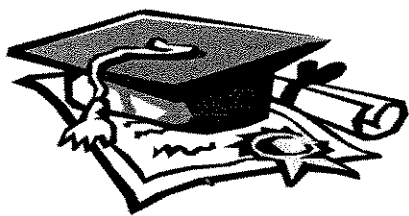
(b) At which stage (A, B or C) can the plant make its own food?

_____ [1]



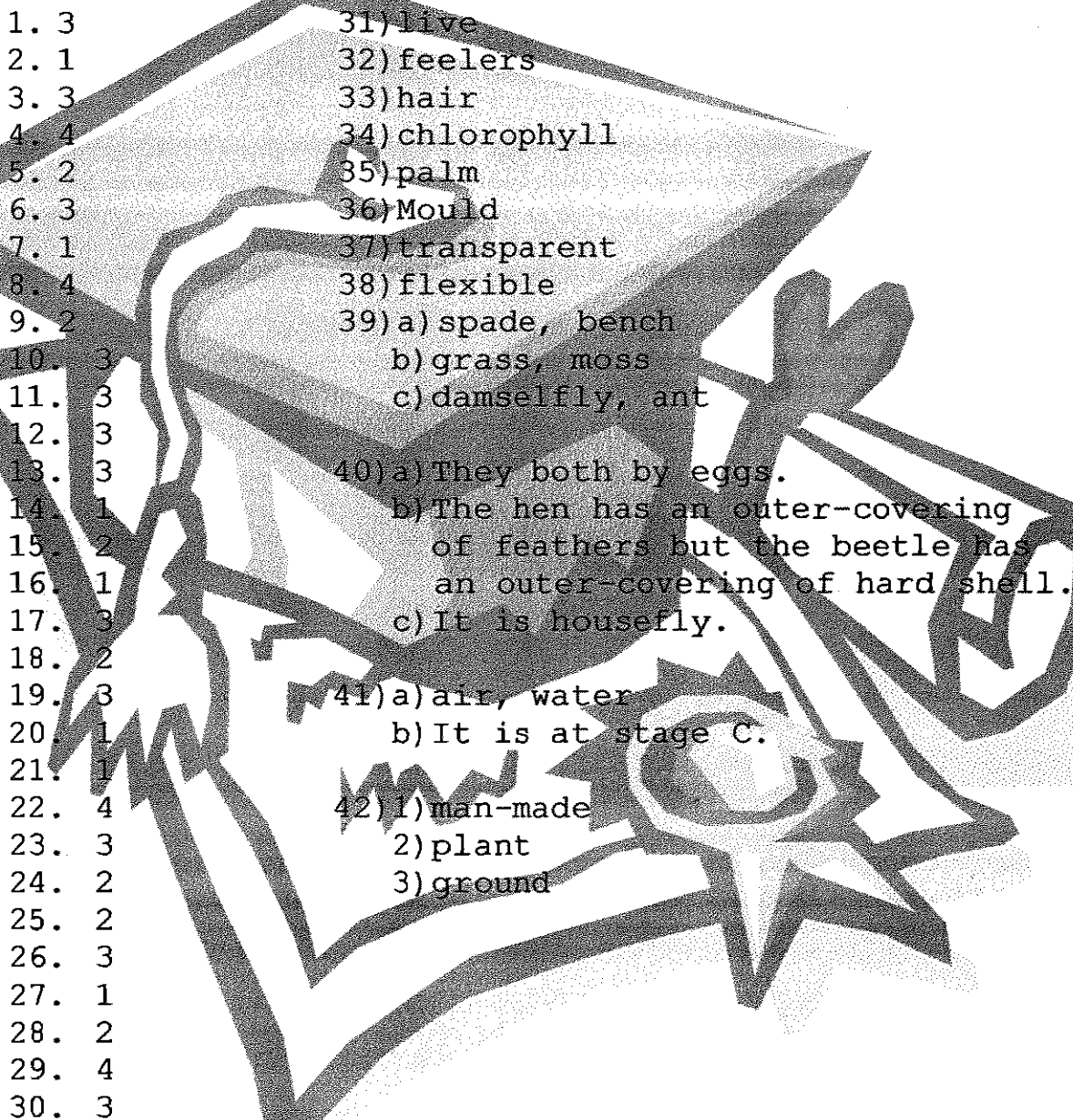
42. Fill in the missing headings in the classification table below.





ANSWER SHEET

AI TONG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

- 
1. 3
 2. 1
 3. 3
 4. 4
 5. 2
 6. 3
 7. 1
 8. 4
 9. 2
 10. 3
 11. 3
 12. 3
 13. 3
 14. 1
 15. 2
 16. 1
 17. 3
 18. 2
 19. 3
 20. 1
 21. 1
 22. 4
 23. 3
 24. 2
 25. 2
 26. 3
 27. 1
 28. 2
 29. 4
 30. 3
 - 31) live
 - 32) feelers
 - 33) hair
 - 34) chlorophyll
 - 35) palm
 - 36) Mould
 - 37) transparent
 - 38) flexible
 - 39) a) spade, bench
b) grass, moss
c) damselfly, ant
 - 40) a) They both by eggs.
b) The hen has an outer-covering of feathers but the beetle has an outer-covering of hard shell.
c) It is housefly.
 - 41) a) air, water
b) It is at stage C.
 - 42) 1) man-made
2) plant
3) ground



Maha Bodhi School
2007 Semestral Assessment 1
Science

Name : _____ ()

Date : 11 May 2007

Class : Pr 3 ()

Duration : 1 h 30 min (Parts I & II)

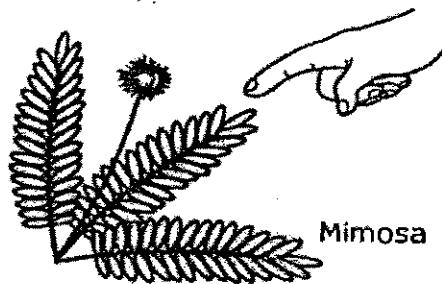
Part I: (60 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. The _____ and _____ are similar in shape but different in size.

- (1) mouse tiger
- (2) toad tadpole
- (3) horse zebra
- (4) hippopotamus whale

2. The Mimosa plant closes its leaves when you touch it.



This shows that the Mimosa plant _____.

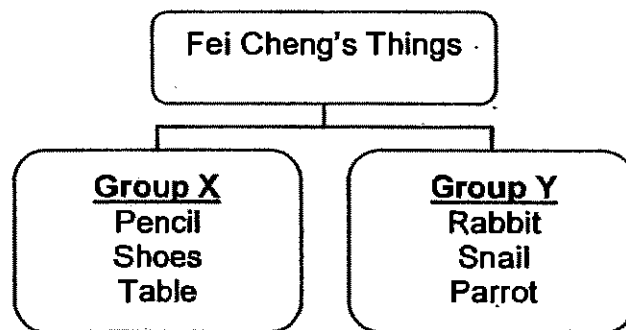
- (1) can grow
- (2) can move by itself
- (3) respond to changes around them
- (4) does not like to be touched by others

3. Which of the following statements are true about plants?

- A. They make food on their own.
- B. They need air, food and water.
- C. They grow, reproduce and die.
- D. They feed on other dead animals.

- (1) B only
- (2) C and D only
- (3) A, B and C only
- (4) A, B, C and D

4. Fei Cheng classified his things into two groups.



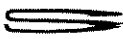
Which of the following can be put into Group Y?

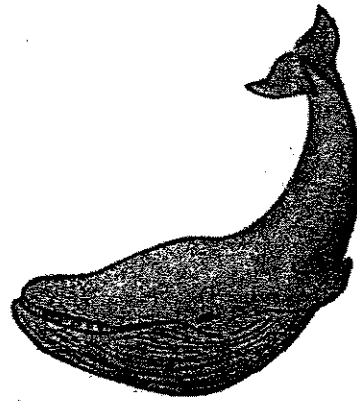
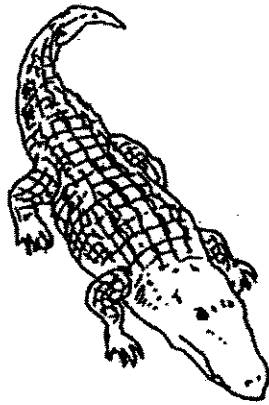
- (1) Toy car
- (2) Cookies
- (3) Plastic flowers
- (4) Money plant

5. The spiny anteater is an exceptional mammal because it _____



- (1) lays eggs
- (2) has a long snout
- (3) eats both plants and animals
- (4) has stiff hairs as its outer body covering

6.  tudy the animals below carefully.



By observation, what do the animals have in common?

- (1) All of them have legs.
- (2) All of them have a tail.
- (3) All of them have a shell.
- (4) All of them have scales..

()

7. **What** does a plant need in order to grow well?

- A. Air
- B. Light
- C. Water
- D. Warmth

- (1) A, B and C only
- (2) A, C and D only
- (3) A, B and D only
- (4) B, C and D only

8. **Bats fly** because they have _____.

- A. gills
- B. feet
- C. wings
- D. feathers

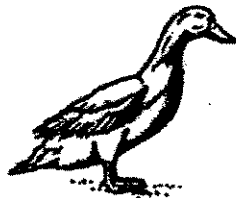
- (1) C only
- (2) C and D only
- (3) B, C and D only
- (4) A, B, C and D

()

()

9. The animal has hair. Its babies drink milk.
Which one of the following animals is best described by the above statements?

(1)



(2)



(3)



(4)



10. Read the following options about some animal characteristics.

- A. Has legs.
- B. Has scales.
- C. Warm blooded.
- D. Give birth to its young alive.

Which of the above options are true of monitor lizards?

- (1) A only
- (2) A and B only
- (3) C and D only
- (4) B, C and D only

11. All insects have _____.

- A. eyes
- B. six legs
- C. two pairs of wings
- D. a head, a thorax and an abdomen

Which one of the following options is correct?

- (1) D only
- (2) B and D only
- (3) A, B and D only
- (4) A, B, C and D

12. Observe the following pictures.



Baby



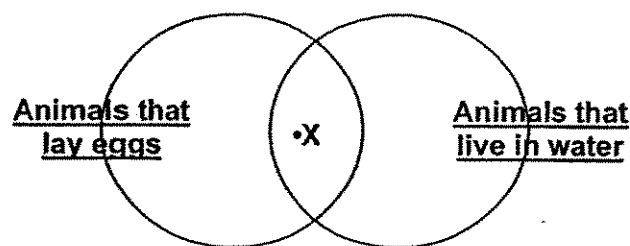
Doll

- A. Both have hair.
- B. Both need air, food and water.
- C. The baby can grow but the doll cannot.
- D. The doll can respond to change but the baby cannot.

Which of the following statements are true?

- (1) A and C only
 - (2) B and D only
 - (3) A, B and C only
 - (4) A, B, C and D
13. Which of the following statements about leaves is correct?
- (1) All leaves are green.
 - (2) All leaves have the same shape.
 - (3) All leaves from the same plant have the same size.
 - (4) Leaves from the same plants usually have the same shape.

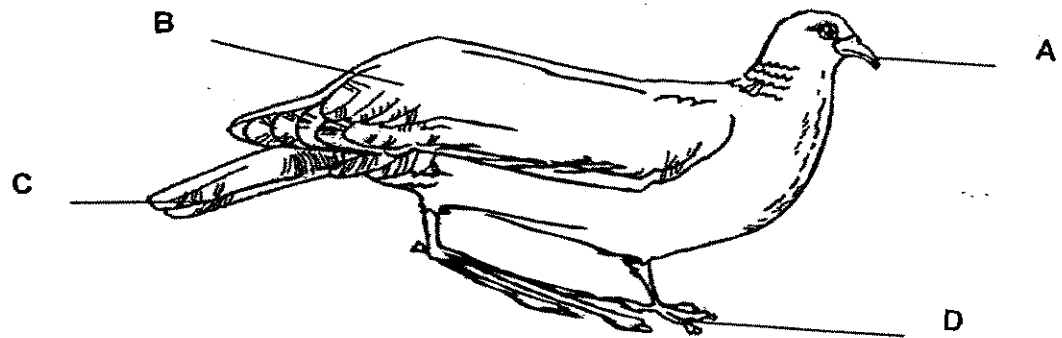
14. Study the Venn diagram below.



Animal X is most likely a _____.

- (1) seal
- (2) guppy
- (3) goldfish
- (4) dolphin

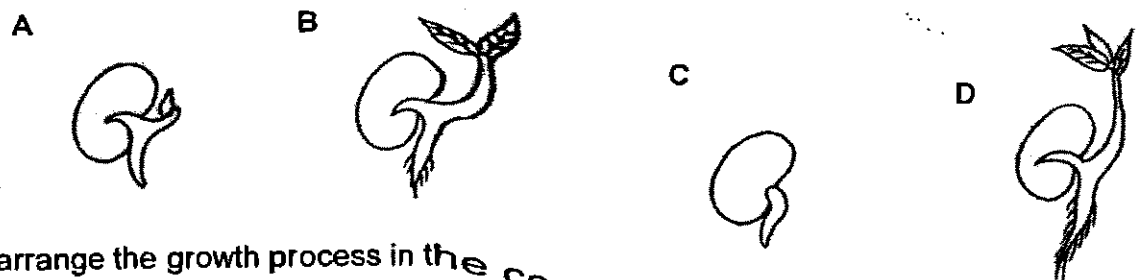
15. The diagram below shows a pigeon. A, B, C and D are its body parts.



Jenny matched the body parts to the functions in the table below. Which one of the following is matched wrongly?

	Body Part	Function
(1)	A	Guides it during flight
(2)	B	Helps it during taking off and landing
(3)	C	Balances itself
(4)	D	Supports the whole body

16. The diagrams below show the growth of a red bean seed.

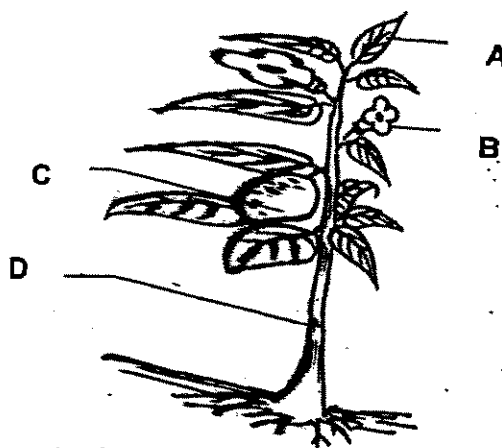


Rearrange the growth process in the correct order.

- (1) A → C → B → D
 (2) A → C → D → B
 (3) C → B → A → D
 (4) C → A → B → D

17. Which one of the following statements is **false** about chlorophyll?
- (1) Animals have chlorophyll.
 - (2) Chlorophyll is green in colour.
 - (3) Fungi do not have chlorophyll.
 - (4) Plants need chlorophyll to make food.

18. Study the diagram below.



Which part of the plant protects the seeds?

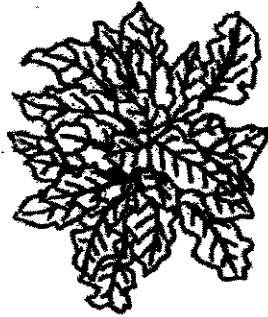
- (1) A
 - (2) B
 - (3) C
 - (4) D
19. Jenny observed that bees in her garden are attracted to plants with brightly coloured and sweet smelling flowers.

Type of plant	Brightly coloured	Sweet smell
Rose	Yes	Yes
Hibiscus	Yes	No
Water Lily	Yes	No
Bird's nest fern	No	No

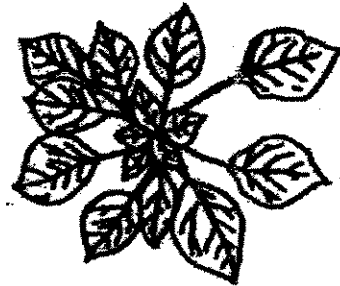
Which one of the following plants will the bees most likely be attracted to?

- (1) Rose
- (2) Hibiscus
- (3) Water Lily
- (4) Bird's nest fern

20. The diagrams below show the arrangement of the leaves of Plants A and B as seen from above.



Plant A



Plant B

From the diagrams, we can conclude that plants A and B grow to _____.

- (1) search for water
- (2) absorb more air
- (3) receive maximum sunlight
- (4) bear flowers and fruits

21. Which one of the following is a fungi?

- (1) Fern
- (2) Cotton
- (3) Mould
- (4) Seaweed

22. Which one of the following is not a fruit?

(1)



cucumber

(2)



chilli

(3)



carrot

(4)



tomato

23. Which of the following list of water plants is correctly classified?

	Floats on water surface	Half-submerged in water	Completely under water
(1)	Hydrilla	Water lily	Water hyacinth
(2)	Water hyacinth	Cattail	Hydrilla
(3)	Cattail	Duckweed	Water lily
(4)	Duckweed	Water hyacinth	Cattail

24. Study the classification table of the living things in **Group R** and **Group S**.

Group R	Group S
Moss	Orchid
Mould	Rafflesia
Toadstool	Frangipani
Ladder fern	Allamanda

Which of the following is a suitable heading for the above classification table?

	Group R	Group S
(1)	Reproduce from spores	Reproduce from seeds
(2)	Non-flowering plants	Flowering plants
(3)	Unpleasant smelling flowers	Pleasant smelling flowers
(4)	Grow only close to the ground	Grow almost everywhere

25. Bacteria are micro-organisms



Which one of the following statements about bacteria is false?

- (1) They are tiny living things.
- (2) They are also called worms.
- (3) They can cause diseases.
- (4) They reproduce quickly under warm and wet conditions.

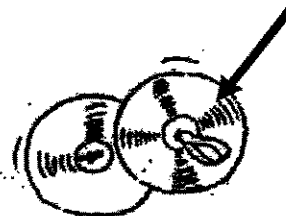
26. The similarity between a bird's nest fern and a mould is that they _____
- (1) reproduce by spores
 - (2) cannot live without light
 - (3) feed on dead or living plants and animals
 - (4) make their own food and give out oxygen
27. Which one of the following list has the correct classification for the properties of different materials?

Properties of Materials					
	Wood	Rubber	Metals	Glass	Plastic
(1)	Floats	Flexible	Strong	Unbreakable	Natural
(2)	Floats	Stiff	Strong	Breakable	Man-made
(3)	Floats	Flexible	Strong	Breakable	Man-made
(4)	Sinks	Flexible	Weak	Breakable	Natural

28. Look at the following musical instruments below with the arrows pointing to the main materials.



Guitar

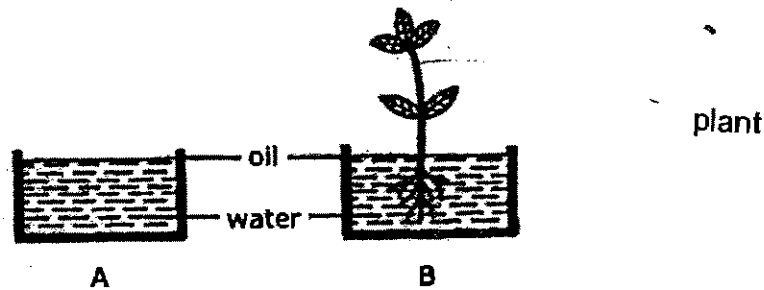


Cymbals

Which one of the following pairs correctly matches the main materials for the musical instruments?

Materials	
Guitar	Cymbals
(1) Wood	Plastic
(2) Plastic	Wood
(3) Metal	Wood
(4) Wood	Metal

29. Daniel set up two beakers A and B as shown below.

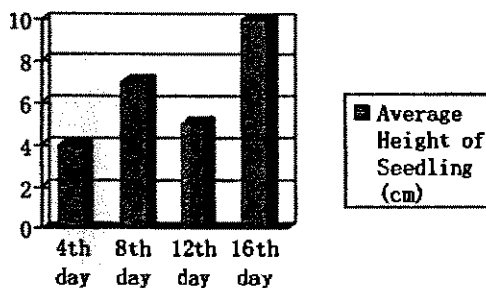


What would happen to the level of water in the beakers after five days?

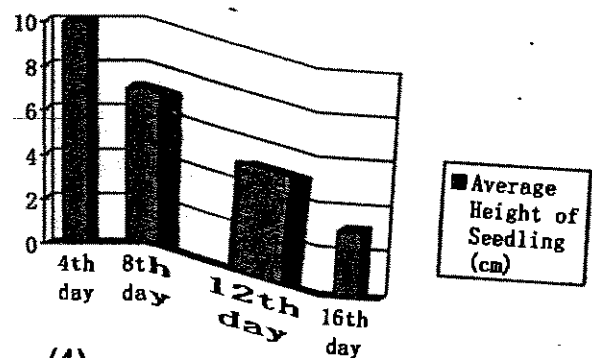
A		B	
(1)	Water level increased	Water level increased	Water level increased
(2)	Water level decreased	Water level decreased	Water level decreased
(3)	Water level remained unchanged	Water level remained unchanged	Water level remained unchanged
(4)	Water level remained unchanged	Water level remained unchanged	Water level remained unchanged

30. Jenyi grew some green beans in a cup on a moist cotton wool and she placed the cup on the windowsill. Which of the following graphs shows the change in the height of the seedlings over 16 days?

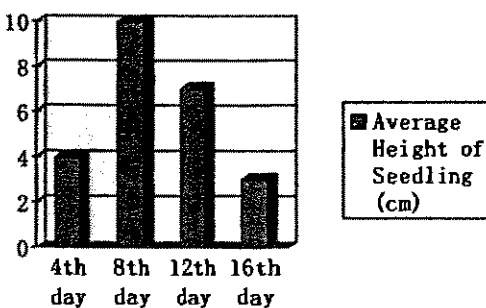
(1)



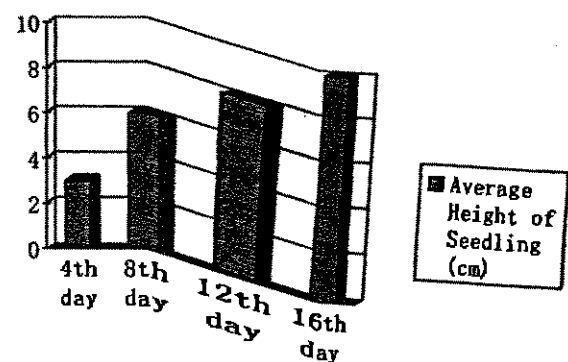
(2)



(3)



(4)



END OF PART I



Maha Bodhi School
2007 Semestral Assessment 1
Science

Name : _____ ()

Class : Pr 3 ()

Duration : 1 h 30 min (Parts I & II)

Date : 11 May 2007

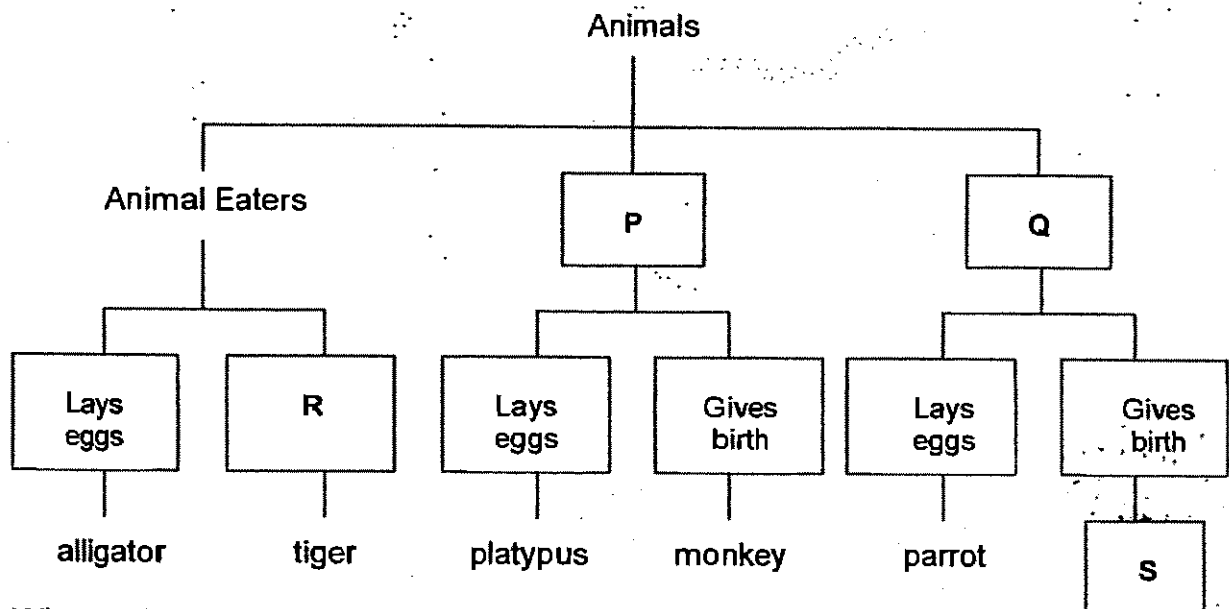
Parent's Signature : _____

Part I (60 marks)	
Part II (40 marks)	
SA1 (100 marks)	

Part II: (40 marks)

Write your answers to questions 31 to 40 in this script.

31. Study the classification chart below and fill in the blanks.



What could letters P, Q, R and S possibly represent?

(a) P: _____ [1]

(b) Q: _____ [1]

(c) R: _____ [1]

(d) S: _____ [1]

32. The classification table below shows three groups of animals grouped according to the place where they are commonly found.

Group A	Group B	Group C
Eel Whale Angelfish	Pig Rat Monkey	Frog Turtle Mudskipper

- (a) Give a suitable heading for:

(i) **Group A:** _____ [1]

(ii) **Group B:** _____ [1]

(iii) **Group C:** _____ [1]

- (b) Name another animal that belongs to **Group A**. [1]

33. Rashid put some guppies and goldfish into an aquarium. He fed the fishes daily. At the end of each week, he recorded the number of guppies and goldfish as shown below.

Type of fish	Number of fishes			
	At the beginning	Week 1	Week 2	Week 3
Guppies	8	8	10	13
Goldfish	5	7	9	7

- (a) Why did the number of guppies increase from Week 1 to Week 3? [1]

- (b) What would have caused the number of goldfish to decrease from Week 2 to Week 3? [1]

- (c) What can you conclude about living things from your answers in (a) and (b)? [2]

34. Study the living things in the box below.

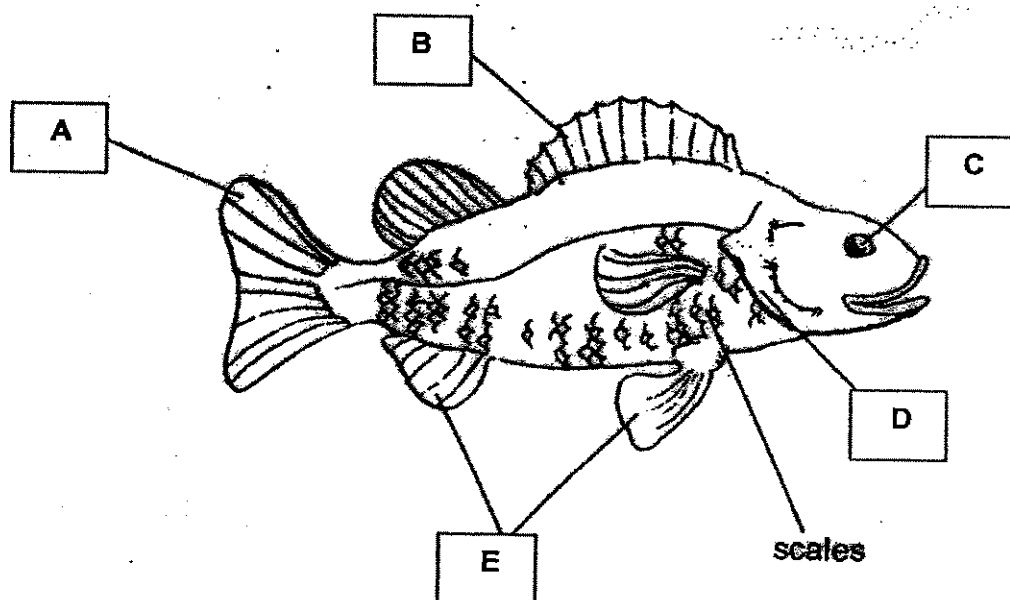
Deer	Snake	Tortoise	Chameleon	
Cockroach	Moth	Sheep	Leopard	Cricket

- (a) Classify the living things with the helping words from the box above. [3]

Classification of Living Things		
X	Insect	Reptile

- (b) A suitable classification heading for "X" is _____. [1]

35. Study the picture of the fish below.



- (a) Part is the gill cover. [1]
- (b) The part(s) that help(s) the fish to swim is/are _____. [2]
- (c) What is the function of the scales?

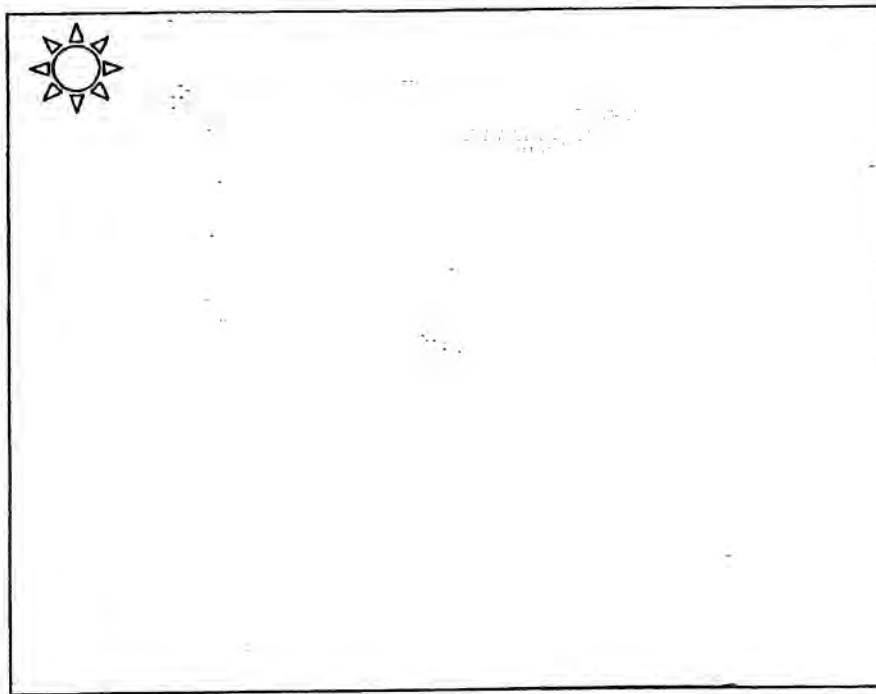
_____ [1]

36. Kay Siang planted a pot of balsam plant in the garden. Everyday, he watered the balsam plant and it grew tall and strong as it received enough sunlight. One day, a strong gust of wind toppled the pot of balsam plant just after Kay Siang left for a month's holiday.



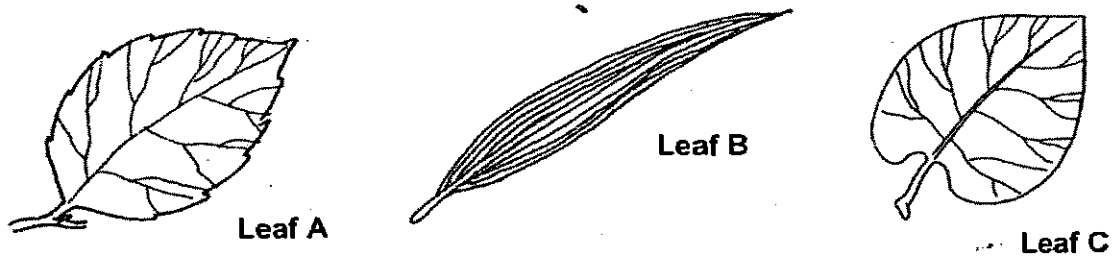
- (a) When Kay Siang returned home after a month, he found that the balsam plant was still alive.

Draw how Kay Siang's pot of balsam plant would look like in the box below. [2]



- (b) What can Kay Siang conclude about plants? [2]

37. Study Leaf A, B and C. (Do not compare sizes)



(a) Which of the two leaves are similar? [1]

Leaf _____ and Leaf _____

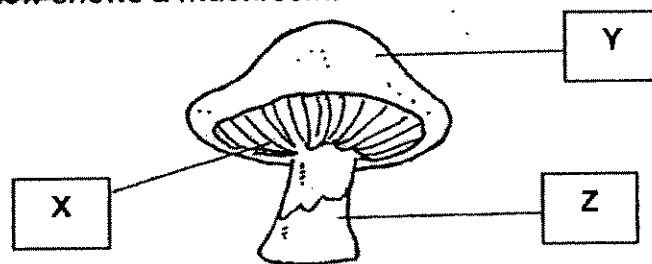
(b) Why are the leaves in (a) similar? [1]

(c) Which of the two leaves are different? [1]

Leaf _____ and Leaf _____

(d) Why are the leaves in (c) different? [1]

38. The diagram below shows a mushroom.



(a) Name the parts of the mushroom. [3]

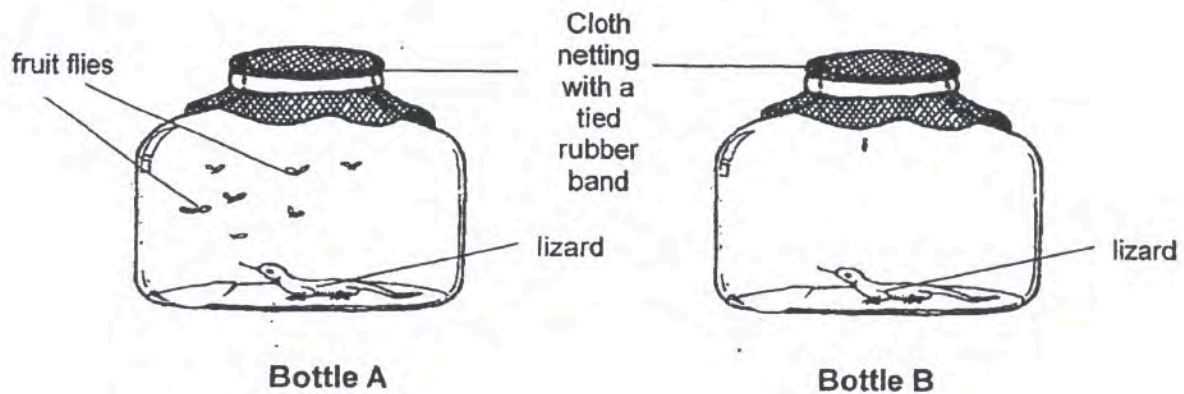
(i) X: _____

(ii) Y: _____

(ii) Z: _____

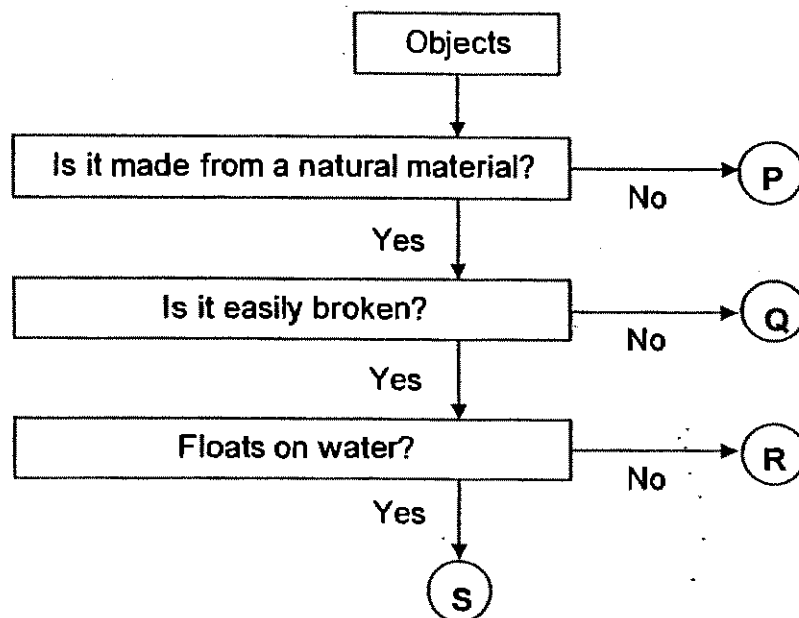
(b) The mushroom reproduces by producing _____ which are found in part . [1]

39. Benny set up an experiment using **Bottles A** and **B** as shown below. The two lizards that he put into the identical glass bottles were of the same type and size.



- (a) What will Benny observe in **Bottle B** after 4 days? [1]
-
- (b) Explain your answer in (a). [1]
-
- (c) Why did the lizard in **Bottle A** die after 10 days? [1]
-
- (d) What can Benny conclude about living things from this experiment? [1]
-
-

40. Study the binary key below.



Classify the following materials using the binary key above.
Which letters P, Q, R and S represent the following objects?

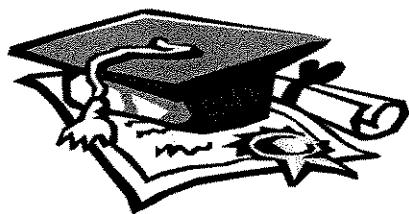
[4]

- (i) Plastic file : _____
- (ii) Glass cup : _____
- (iii) Wooden chopsticks : _____
- (iv) Metal ruler : _____

END OF PAPER



"Have you checked your work?"



ANSWER SHEET

MAHA BODHI PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3
 2. 3
 3. 3
 4. 4
 5. 1
 6. 2
 7. 1
 8. 1
 9. 2
 10. 2
 11. 3
 12. 1
 13. 4
 14. 3
 15. 1
 16. 4
 17. 1
 18. 3
 19. 1
 20. 3
 21. 3
 22. 3
 23. 2
 24. 1
 25. 2
 26. 1
 27. 3
 28. 4
 29. 3
 30. 4
- 31) a) Plant and Animal Eaters.
b) Plant Eaters.
c) Gives birth.
d) cow.
- 32) a) i) water ii) land iii) water and land
b) goldfish
- 33) a) The guppies reproduced.
b) Some goldfishes died.
c) Living things can reproduce.
Living things can die.
- 34) a) X: Sheep, Deer, Leopard.
Insect: Cockroach, Cricket, Moth
Reptile: Tortoise, Chameleon, Snake
b) Mammals.
- 35) a) D b) A, B, E c) protect the fish from injury.
- 36) a)
- b) Plants grow towards sunlight.

- 37) a) B, C
b) Both have entire edge.
c) A, B
d) Leaf A has jagged edge but Leaf B has entire edge.

- 38) a) X: gills.
Y: cap.
Z: stalk.
b) spores, X.

- 39) a) He will observe that the lizard in Bottle B dies.
b) Bottle A has food while Bottle does not.
c) It died because it ate all the flies and had no more food.
d) Living things need food to survive.

- 40) i) P ii) R iii) S iv) Q

METHODIST GIRLS' SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 1 – 2007
PRIMARY 3
SCIENCE

BOOKLET A

Name : _____ ()

Class : Primary 3. _____

Date : 10th May 2007

Section A : (30 x 2 marks)

For each question, four options are given. Choose the most suitable option and shade your answer in the Optical Answer Sheet (OAS) provided.

1. Which one of the following pairs of animals has the same type of body covering?

- (1) toad and turtle
- (2) fish and prawn
- (3) snail and snake
- (4) duck and penguin

2. Which of the following show that some micro-organisms are useful to man?

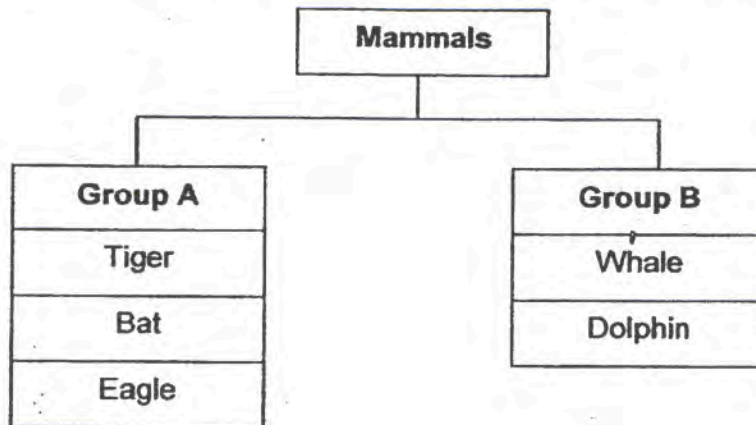
- A : Yeast is used for making bread fluffy.
- B : Some micro-organisms cause diseases.
- C : Some bacteria help to turn milk into cheese.
- D : Milk when left in the open for too long turns sour.

- (1) A and C only
- (2) A and D only
- (3) B and C only
- (4) B and D only

3. Which of the following is not a form of response?

- (1) A bird flies away when it sees a cat.
- (2) A hat moves when it is blown by the wind.
- (3) A balsam plant grows towards the sunlight.
- (4) A person waves his hand when he sees a good friend.

Study the classification diagram below and answer questions 4 and 5.



4. Which animal is grouped wrongly?

- (1) Bat
- (2) Tiger
- (3) Eagle
- (4) Dolphin

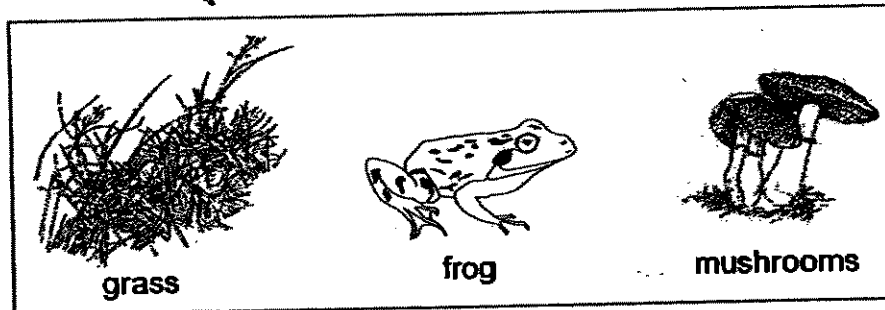
5. Which is the correct heading for Group A and Group B?

	Group A	Group B
(1)	Land Mammals	Sea Mammals
(2)	Warm-blooded animals	Cold-blooded animals
(3)	Animals that lay eggs	Animals that give birth to young
(4)	Animals without fins	Animals with fins

6. The opening and closing of flowers and leaves of some plants show that plants can _____.

- (1) grow
- (2) move
- (3) breathe
- (4) reproduce

7. Four students made statements while trying to group the living things shown below.



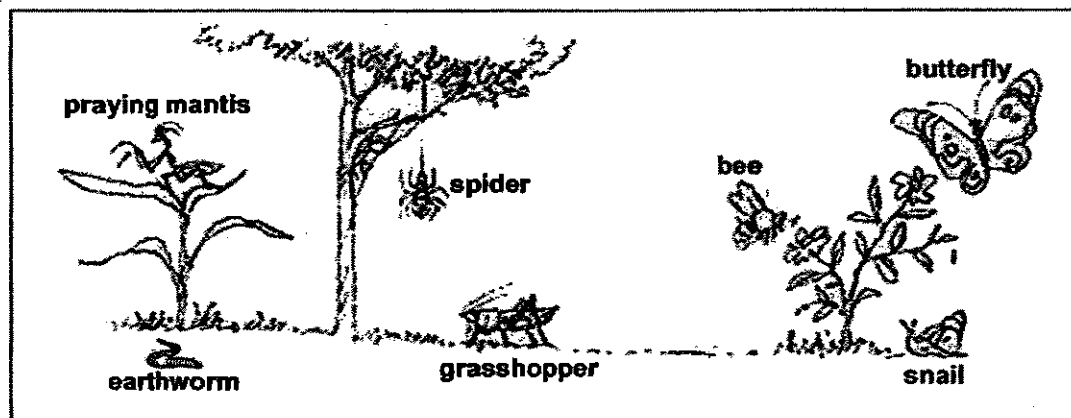
- John : I will group grass and mushrooms together under 'plant' but the frog under 'animal'.
- Penny : Grass and mushrooms are non-flowering plants while the frog is an animal.
- Dennis : Grass and mushrooms are fixed in one position. They cannot move freely like the frog. Grass can make its own food but the frog and mushrooms cannot.
- Felicia : The mushrooms and grass reproduce from spores. The mushrooms and frog depend on other plants and animals for food.

Which student made the correct statement?

- (1) John
(2) Penny
(3) Dennis
(4) Felicia
8. Which of the following group of animals, does not have any outer body covering?

- (1) Snail, cockle, lizard
(2) Parrot, horse, giraffe
(3) Snake, crocodile, seal
(4) Jellyfish, octopus, earthworm

9. Look at the picture below.



How many insects can be found in this picture?

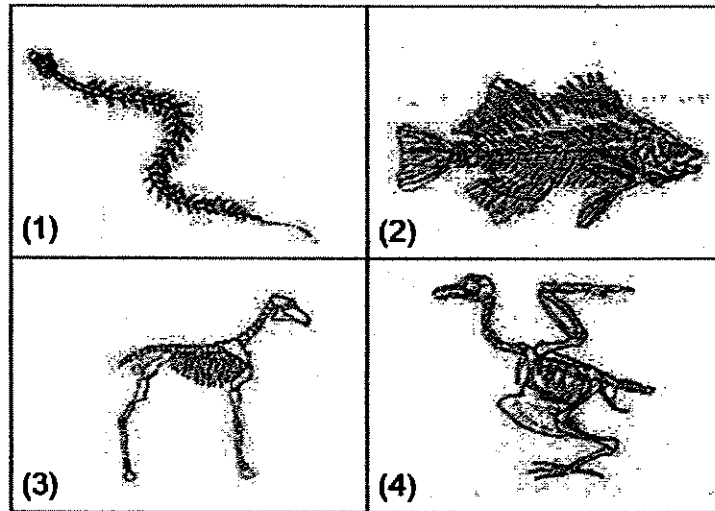
- (1) 5
(2) 2
(3) 3
(4) 4
10. Animal X was put in a tank together with some water, leaves and fruitflies. After 3 days, the amount of leaves and the number of fruitflies left in the tank were recorded in the table below.

Day	Amount of leaves	Number of fruitflies
1	60g	25
2	60g	20
3	60g	16

Animal X is likely to be a _____.

- (1) toad
(2) snake
(3) caterpillar
(4) grasshopper

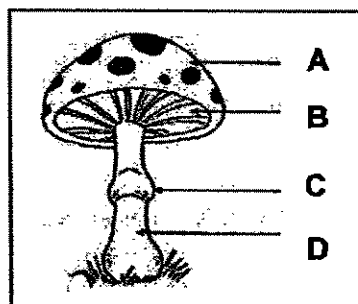
11. The models shown below belong to different organisms.



Which one of them is most likely a bird?

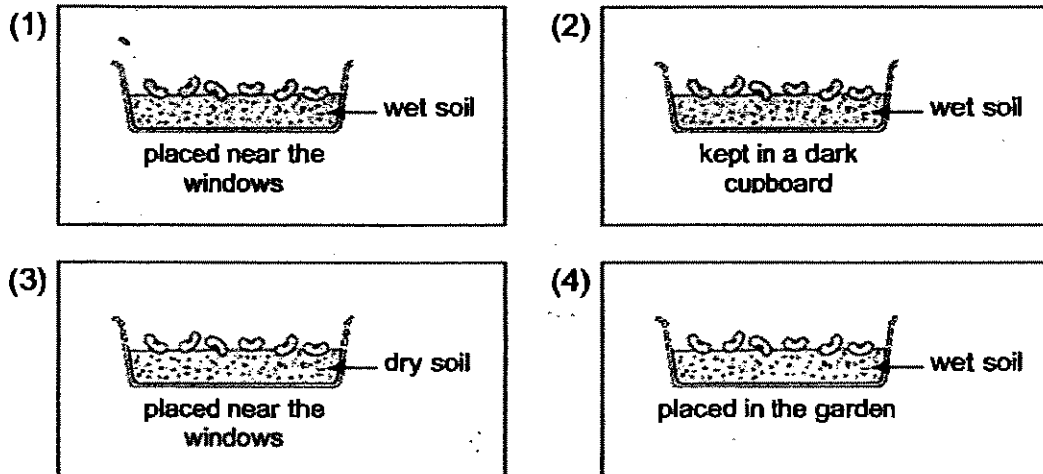
- (1) 1
- (2) 2
- (3) 3
- (4) 4

12. Which part of the wild mushroom shown below reproduces new mushrooms?



- (1) A
- (2) B
- (3) C
- (4) D

13. Four set-ups shown below were placed at different positions in a school.



In which set-up will the seeds not grow at all?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

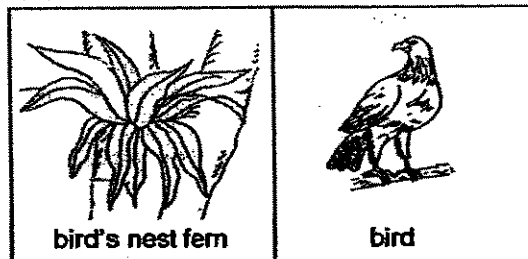
14. The table below shows a comparison between the life cycles of a frog and a housefly made by Amanda, Betty, and Charlotte.

	Comparison	Frog	Housefly
Amanda	Lays eggs in water.	Yes	No
Betty	Has four stages in its life cycle.	Yes	No
Charlotte	Young resembles the adult.	No	No

Who have made the correct comparisons?

- (1) Amanda and Betty
- (2) Betty and Charlotte
- (3) Charlotte and Amanda
- (4) Amanda, Betty and Charlotte

15. The pictures below show a bird's nest fern and a bird.



In what ways are they different?

- A : The bird can move about freely but the bird's nest fern is fixed in one position.
- B : The bird has to look for food but the bird's nest fern makes its own food.
- C : The bird responds quickly to changes but the bird's nest fern responds slowly to changes.

- (1) A and B
 (2) A and C
 (3) B and C
 (4) A, B and C

16. The table below shows the development of a chicken egg.

Part Formed	Age of chicken embryo in days			
	2	6	10	21
Head		√	√	√
Eyes		√	√	√
Beak		√	√	√
Wings			√	√
Legs		√	√	√
Feathers				√

How long does it take for the egg to be fully developed?

- (1) 2 days
 (2) 6 days
 (3) 10 days
 (4) 21 days

17. Grace observed the different stages of development of a moth over a period of time. She recorded her observations in the table below.

Date	Observation
3 rd March	Found an egg of a moth on a leaf.
8 th March	Egg turned into a caterpillar.
22 nd March	Caterpillar turned into a pupa.
7 th April	Pupa turned into a moth.

Based on the information given above, on which date did the young of the moth stop eating and moving?

- (1) 3rd March
- (2) 8th March
- (3) 22nd March
- (4) 7th April

18. In the table below, W, X, Y and Z represent different stages in the life cycle of a balsam plant.

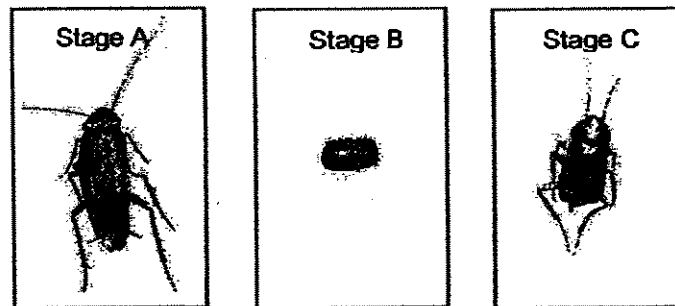
Stage	Development
W	Leaves appearing
X	Seed germinating
Y	Fruits appearing
Z	Flowers appearing

Mary wants to arrange the above stages in the correct order, beginning with stage X.

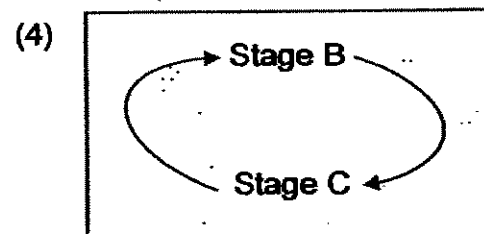
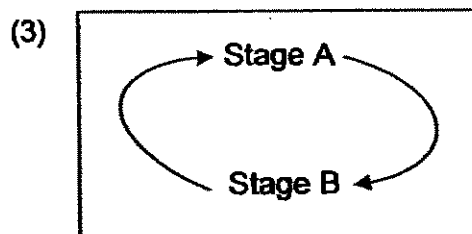
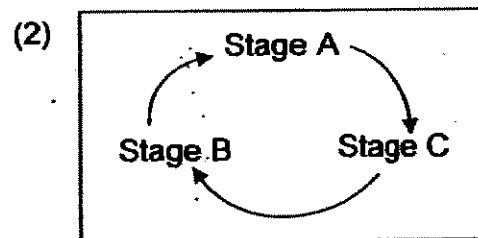
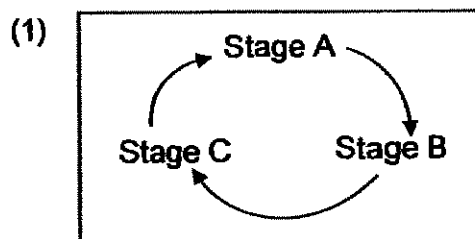
Which of the following order should she choose?

- (1) X, W, Y, Z
- (2) X, Y, W, Z
- (3) X, Z, W, Y
- (4) X, W, Z, Y

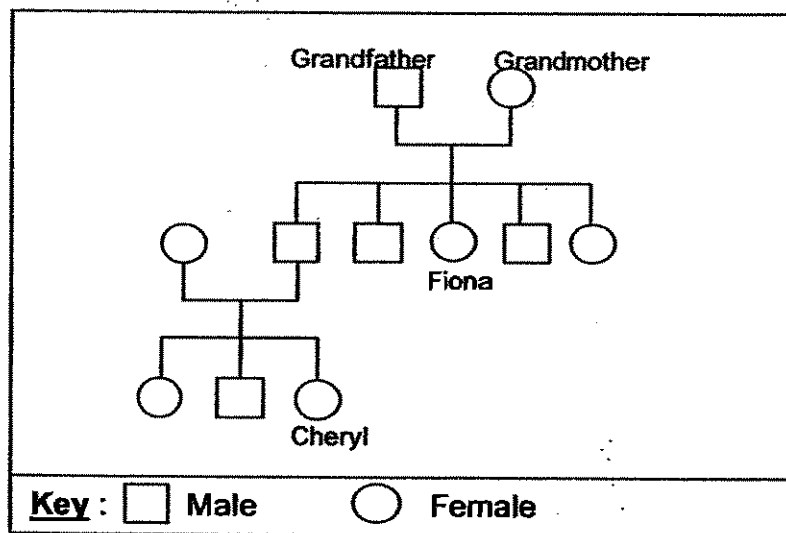
19. The diagrams below show the stages in the life cycle of a cockroach.



Which one of the following shows the life cycle of a cockroach correctly?



20. The diagram below shows Cheryl's family tree.

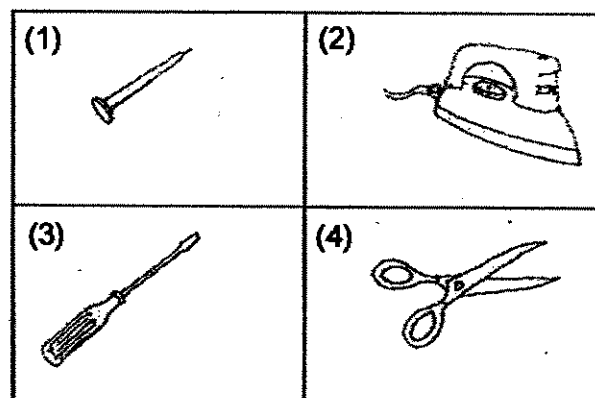


How are Cheryl and Fiona related?

Fiona is Cheryl's _____.

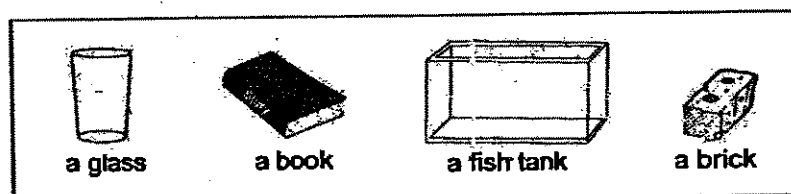
- (1) aunt
- (2) uncle
- (3) father
- (4) mother

21. Which of the following objects is not likely to be made from a combination of plastic and metal?



- (1) 1
- (2) 2
- (3) 3
- (4) 4

22. What is/are the common property/ies of the objects below?



- A : They are flexible.
 B : They break easily.
 C : They are non-magnetic objects.
 D : They allow light to pass through.

- (1) A only
 (2) C only
 (3) C and D only
 (4) B and D only

23. Which of the following objects is made from man-made material?

- (1) A paper bag
 (2) A cotton shirt
 (3) A styrofoam cup
 (4) A silk handkerchief

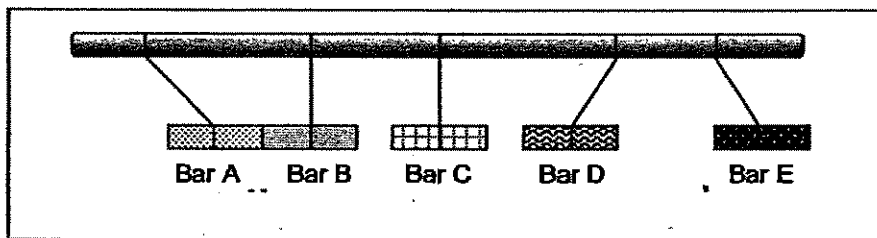
24. The table below shows some characteristics of four materials.

Property	Material A	Material B	Material C	Material D
Float on water	No	No	No	Yes
Can see clearly through it	Yes	No	No	Yes
Break easily when dropped	Yes	Yes	No	No

Which material is most suitable for making water bottles?

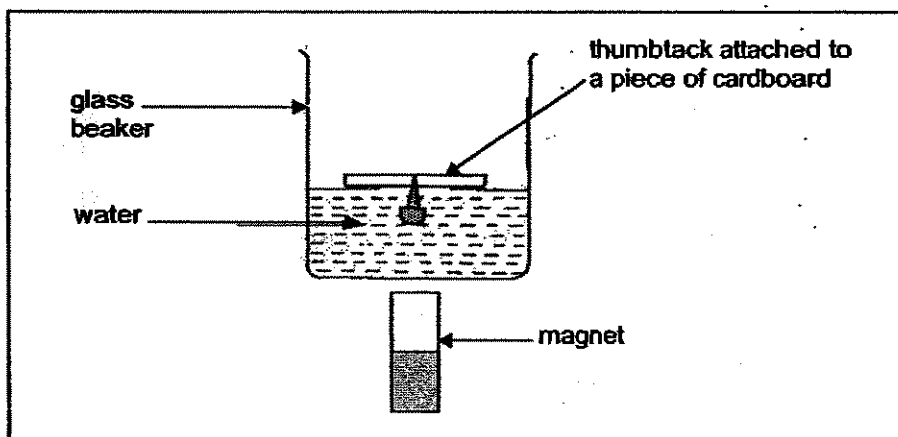
- (1) Material A
 (2) Material B
 (3) Material C
 (4) Material D

25. The diagram below shows five metal bars of the same size tied to a pole.



Which one of the metal bars is made of a non-magnetic substance?

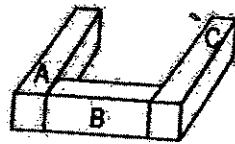
- (1) Bar A
 - (2) Bar B
 - (3) Bar C
 - (4) Bar D
26. WeiMun attached a thumbtack to a piece of cardboard. Next, she put the cardboard in a beaker of water. Finally, she placed a bar of magnet under the beaker as shown in the diagram below.



She then noticed that the cardboard sank towards the magnet. Which one of the following would be a possible reason?

- (1) The thumbtack is a magnet.
- (2) The cardboard has absorbed too much water.
- (3) The magnetic force has passed through the water and has attracted the thumbtack to it.
- (4) The magnetic force has passed through the glass beaker and the water beaker and has attracted the thumbtack to it.

27. Look at the set-up below.

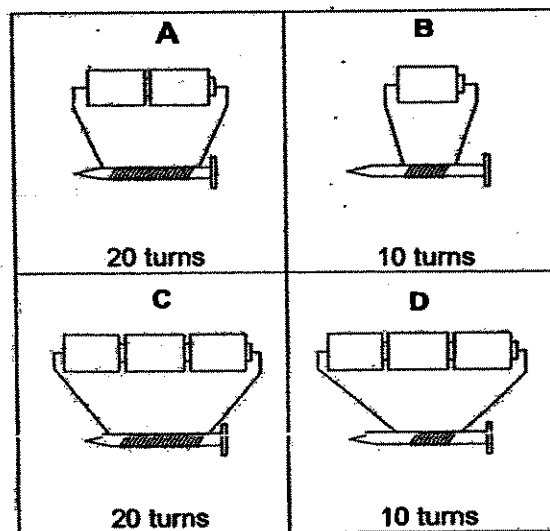


Which of the following is true?

- (1) If magnet A is removed, magnets B and C will be separated.
- (2) If magnet C is removed, magnets B and A will be separated.
- (3) If magnet B is removed, magnets A and C will attract each other.
- (4) If magnet A and C are removed, magnet B will lose its magnetism.

28. Woon Jo learnt that an iron nail became a magnet when it was placed in a coil of wire joined to batteries.

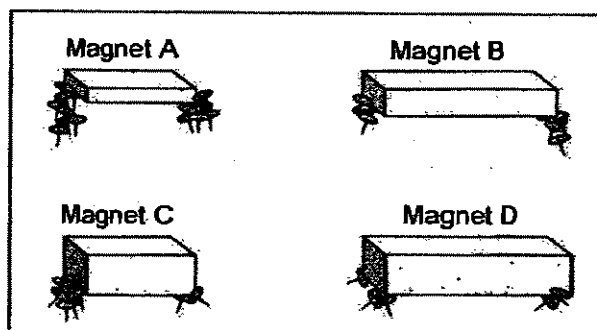
She wanted to find out whether the number of turns of the coil affected the strength of the magnet (iron nail). She set up four arrangements as shown in the diagrams below.



Which two arrangements should she use to make it a fair test?

- (1) A and B
- (2) A and C
- (3) B and C
- (4) C and D

29. The diagrams below show the number of thumbtacks that were picked up by four different magnets.



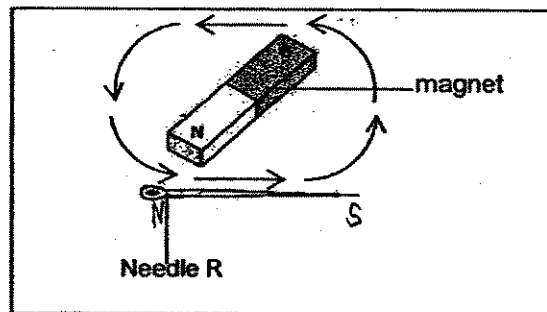
Sonia, Clara, Freida and Beverly made the following conclusions based on the diagrams above:

- | | | |
|---------|---|---|
| Sonia | : | A bigger magnet has a stronger pull. |
| Clara | : | A smaller magnet has a stronger pull. |
| Freida | : | The strength of a magnet depends on its size. |
| Beverly | : | The strength of a magnet does not depend on its size. |

Who made the correct conclusion?

- (1) Sonia
- (2) Clara
- (3) Freida
- (4) Beverly

30. The diagram below shows Needle R being made into a temporary magnet using the stroking method.



The needle is then placed near a compass.

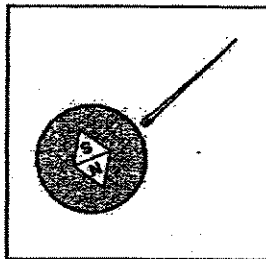


Diagram 1

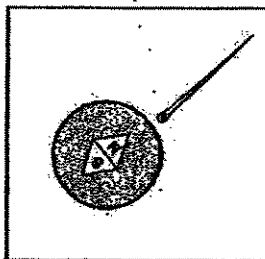


Diagram 2

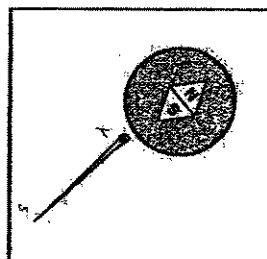


Diagram 3

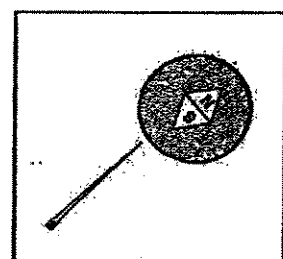


Diagram 4

Which one of the diagrams above shows Needle R correctly?

- (1) Diagram 1
- (2) Diagram 2
- (3) Diagram 3
- (4) Diagram 4

METHODIST GIRLS' SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 1 – 2007
PRIMARY 3
SCIENCE

BOOKLET B

Name : _____ ()

Class : Primary 3. _____

Date : 10th May 2007

Part	Maximum Marks	Marks Obtained
A	60	
B	40	
Total Marks	100	

Parent's Signature : _____

Section B : (40 marks)**Write the answers in the blanks provided.**

31. A dolphin lives in water and can swim like a fish but scientists group it as a mammal, not a fish.



- a) Give two reasons why the dolphin is a mammal. (2m)

(i) _____

(ii) _____

- b) Name another mammal which lives in the sea. (1m)

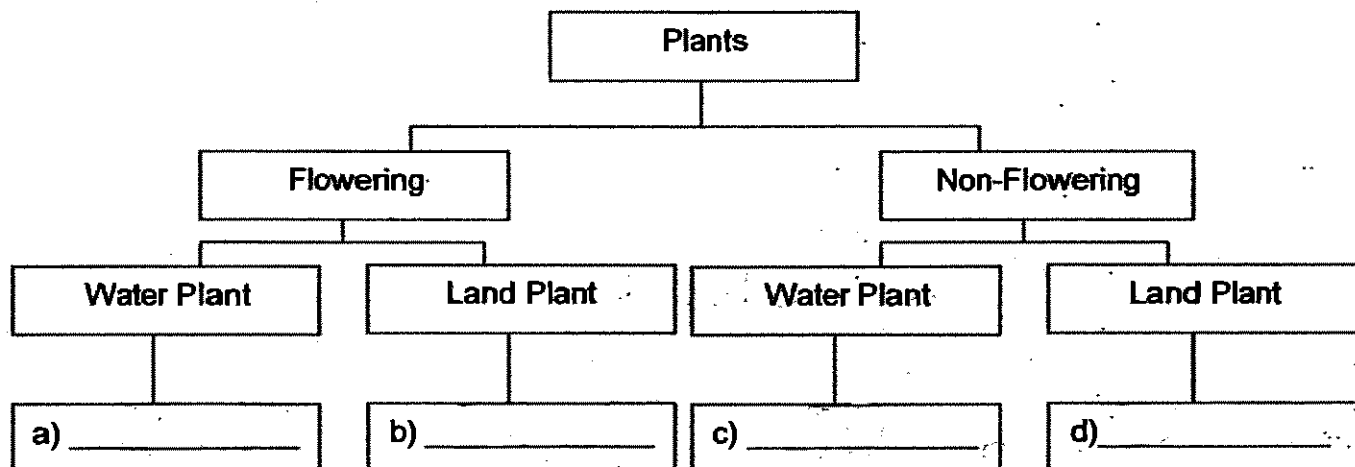
32. The following table gives information on four plants, W, X, Y and Z, based on two characteristics.

Characteristics	W	X	Y	Z
Bears fruit	No	Yes	No	Yes
Grows on water	No	Yes	Yes	No

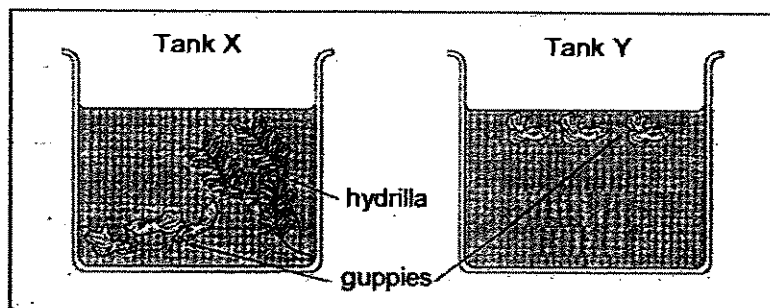
From the information above, where do plants W, X, Y and Z belong in the following classification table?

Write your answers in the boxes.

(2m)



33. Sunny set up two tanks, X and Y. He placed three guppies in each tank and some hydrilla plants in Tank X only.



After a while, Sunny made the following observations.

Tank X : The fish swam freely. ✓
Tank Y : The fish swam near the water surface. ✓

- a) Why did the fish in Tank Y keep swimming near the water surface? (1m)

- b) Write two things that must be kept the same in this experiment to make this a fair test (2m)

(i)

(ii)

34. Four different plants are grown under different conditions as shown below.

Plants	Conditions		
	Air	Water	Sunlight
A	✓	✓	X
B	✓	X	✓
C	X	X	✓
D	✓	✓	✓

- a) Which plant will most likely die first? (1m)

- b) Which plant will survive the longest? (1m)

- c) What can we conclude from the above experiment? (1m)

35. Cindy was studying the characteristics of a particular animal. She made notes about the animal based on her observations.

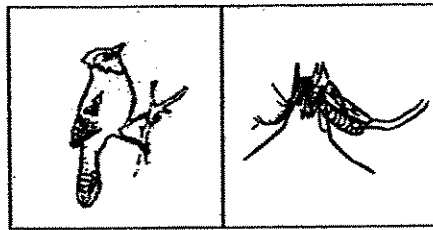
- It swims.
- It has fins.
- Most of its kind lays eggs.

- (a) Based on her observations, which group of animals do you think this animal belongs to? (1m)

- (b) What kind of outer covering do you think this animal has? (1m)

- (c) What is the function of its fins? (1m)

36. The diagrams show a bird and a mosquito.



(a) Draw and state the stages of life cycles of a bird and a mosquito in the boxes below. (2m)

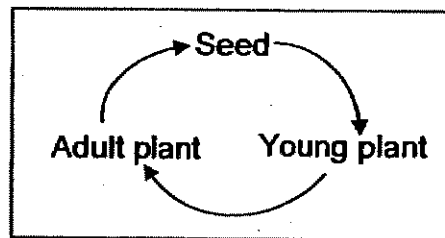
Life cycle of a bird	Life cycle of a mosquito

(b) State one difference and one similarity between the life cycle of a bird and a mosquito. (2m)

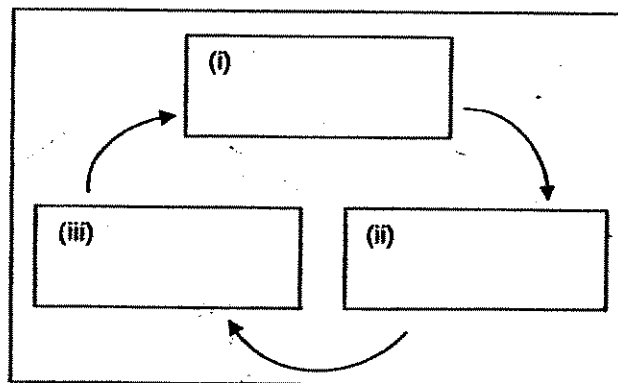
Difference : _____

Similarity : _____

37. The diagram below shows the life cycle of a green bean plant.



- (a) In the boxes below, fill in the stages of the life cycle of an onion. (1m)



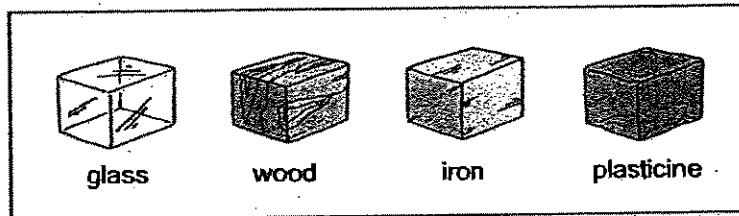
- (b) Give another example of a plant that has a similar life cycle as the onion. (1m)

38. (a) What is moulting? (1m)

- (b) Give two examples of animals that moult. (1m)

_____ and _____

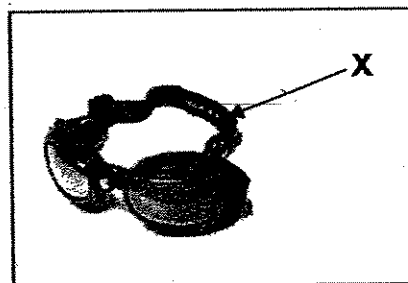
39. Kevin has some blocks made of different materials.



a) Which material above could be made into a magnet? (1m)

b) Which two materials are needed for making a light bulb? (1m)

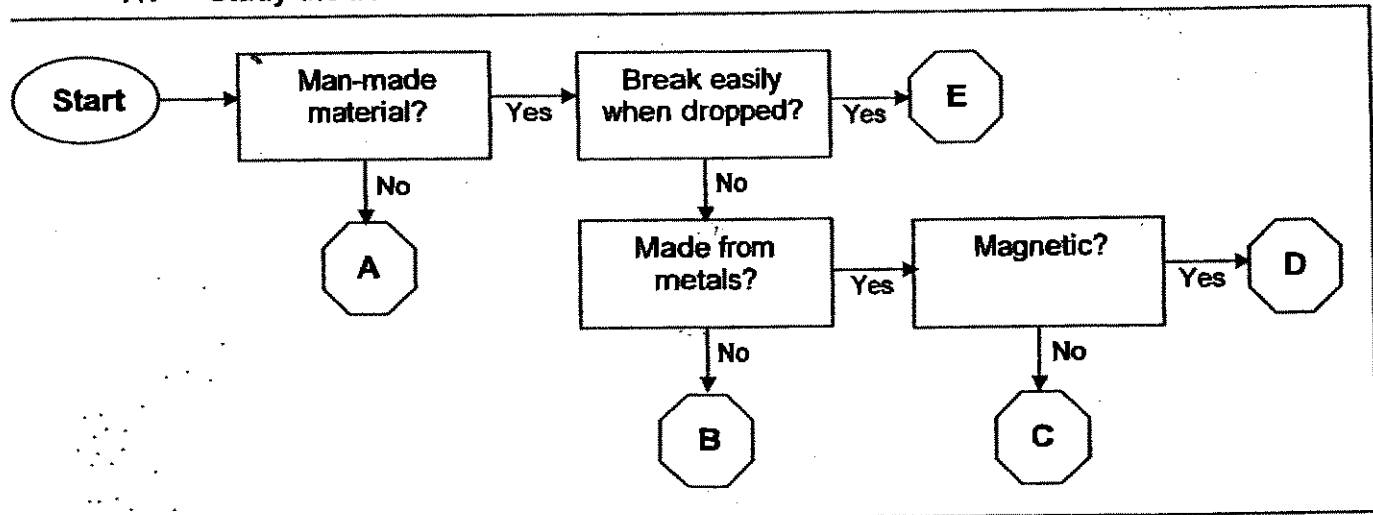
40. Give two reasons why rubber is commonly used to make the part labelled X of the goggles. (2m)



a) _____

b) _____

41. Study the flow chart below.

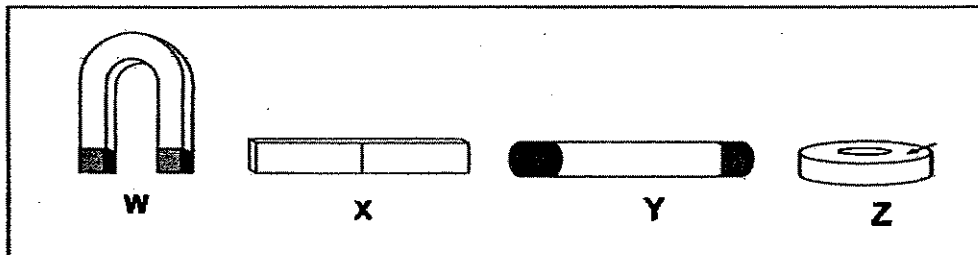


Based on the flow chart, what are materials, A, B, C, D and E?
Write in the table provided below. (The first one is done for you)

(2m)

Wood	Ceramics	Plastics	Steel	Zinc
A				

42. Kai Yun had four magnets, W, X, Y and Z, as shown in the diagram below.



To compare the strength of the magnets, she brought each of the magnets near a pile of paper clips.

The table below shows the number of paper clips attracted by the magnets, A, B, C and D, from various distances.

Magnet	Distance between magnet and paper clips (cm)	Number of paper clips attracted
W	6	10
X	4	11
Y	3	13
Z	4	12

Based on the table above, Kai Yun and her friends, Lauren and Sook Lin, made the following statements.

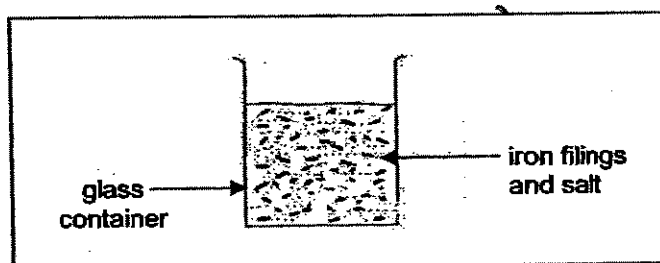
Kai Yun : Magnet X is stronger than magnet W.
 Lauren : Magnet Z is stronger than magnet X.
 Sook Lin : Magnet Y is the strongest magnet.

- a) Who made the correct statement? (1m)

- b) Kai Yun's teacher said that this was not a fair test. Do you agree with her teacher? (1m)

- c) Give a reason to support your answer in (b)? (1m)

43. During a Science lesson, Woon Jo was given a glass container filled with some iron filings and salt as shown in the diagram below. (3m)



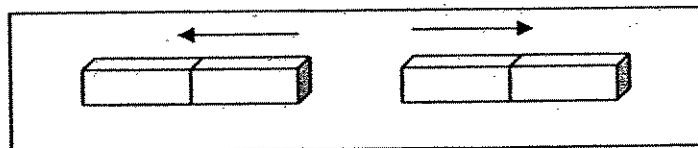
She was provided with the following:

- a spoon
- a strainer
- bar magnet
- an empty glass container

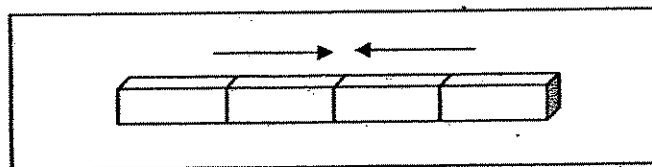
In the table below, explain how she could separate the iron filings from the salt, using what she was provided with.
(She need not use all the things that she was provided with.)

Thing/s used	Woon Jo's action/s	Result/s of her action/s

44. When Kirsten placed two magnets near each other, as shown below, she could see that the magnets pushed away from each other.

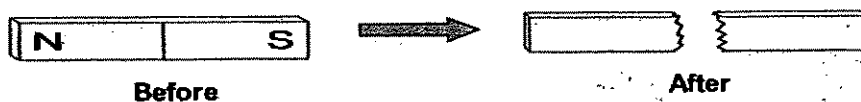


- a) Explain why this happened? (1m)

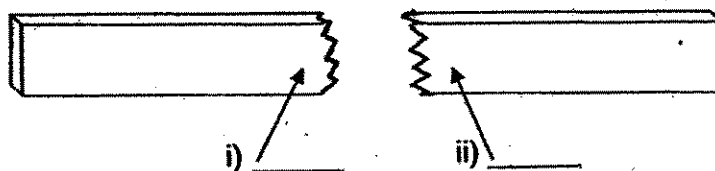


- b) What must she do to bring the two magnets together as shown in the diagram above? (1m)

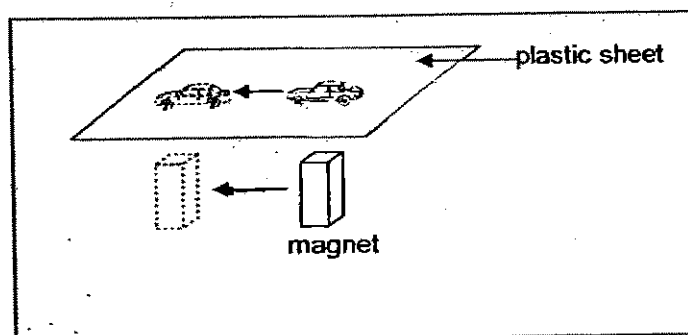
Kirsten accidentally broke one magnet into two pieces.



- c) Label the poles in the 2 broken pieces of magnets below. (1m)



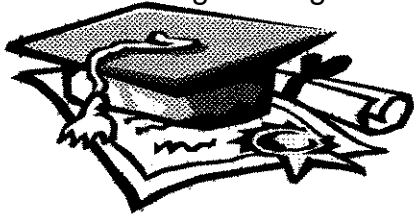
45. Shirley placed a metal toy car on a plastic sheet and held a magnet under the sheet as shown in the diagram below.



When she moved the magnet, she noticed that the toy car moved in the same direction.

- a) The toy car moved because the plastic sheet is a _____ material. The magnetic force can pass through it and allow the toy car to be moved along with the magnet. (1m)
- b) When she replaced the plastic sheet with an iron sheet, would the toy car move? (1m)
- _____
- c) Explain your answer in (b). (1m)
- _____
- _____

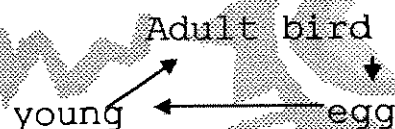
End of Paper
Have you checked through your work?



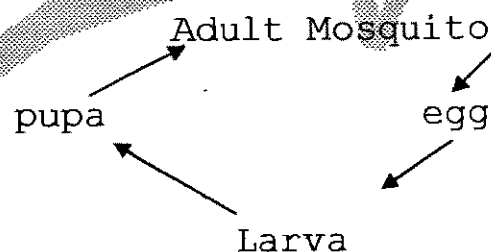
ANSWER SHEET

M G S PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 4 31)a)i)It gives birth to young alive.
2. 1 ii)It feed its young with its milk.
3. 2 b)A whale.
4. 3
5. 1 32)a)X b)Z c)Y d)W
6. 2
7. 3 33)a)They needed air.
8. 4 b)i)Must put same amount of foot.
9. 4 ii)Same type of fish must be used.
10. 1
11. 4 34)a)C b)D
12. 2 c)Plants need air,water and sunlight
13. 3 to survive.
14. 3
15. 4 35)a)The group called "fish".
16. 4 b)It has scales on its body.
17. 3 c)It is to help the fish swim.
18. 4
19. 1 36)a) Life cycle of a bird
20. 1
21. 1
22. 2
23. 3
24. 4
25. 3
26. 4
27. 3
28. 4
29. 4
30. 3



Life cycle of a mosquito



36)b)Difference: A bird has three stages of its life cycle while the mosquito has four stages of its life cycle.

Similarity:Both lay eggs.

37)a)i)bulb ii)young plant iii)Adult plant
b)A lily

38)a)It shed its old skin and grow a new one.
b)caterpillar and nymph.

39)a)Iron .
b)Glass and iron.

40)a)It is flexible.
b)Rubber is water proof.

41)A,E,B,D,C

42)a)Lauren.
b)Yes.
c)The distance was different.

43)bar magnet, Dip the magnet into the container,
You slide the magnet upwards, the iron filings will be attracted.

44)a)Two like poles were facing each other.
b)Let one pole face the other magnet which has a different pole facing it.
c)i)S ii)N

45)a)non-magnetic
b)No
c)It is a magnetic material and so, it will not let magnetism pass through it.

---end---



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT (1)

2007

Name : _____ Index No: _____ Class: P3 _____

10 May 2007

SCIENCE

Att: 1 h 15 min

Section A	30	
Section B	30	
Your score out of 60 marks		
Highest score	Class	Level
Average score		
Parent's signature		

SECTION A (15 x 2 marks)

For each question from 1 to 15, four options are given.

One of them is the correct answer.

Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1. Which one of the following groups of things needs air, water and food?

- (1) lion, eagle, marble
- (2) mimosa plant, frog, monkey
- (3) plastic flower, turtle, ostrich
- (4) squirrel, cotton wool, mushroom

2. The pictures below are some of the things that we know.



A



B



C



D

Which one of the following is a set of non-living things?

- (1) A and B only
- (2) A and C only
- (3) B and D only
- (4) C and D only

3. Which of the following statements are **FALSE**?

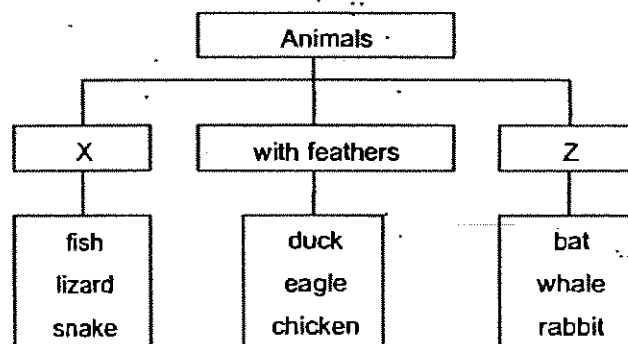
- A Animals and plants are living things.
- B Living things die quickly without air or water.
- C All non-living things can move by themselves.
- D All non-living things can respond to changes around them.

- (1) A and B only
- (2) A and C only
- (3) B and D only
- (4) C and D only

4. Which one of the following statements is **TRUE** of all living things?

- (1) They feed on other animals.
- (2) They move in response to light.
- (3) They reproduce by giving birth to their young.
- (4) They change in size and appearance with time.

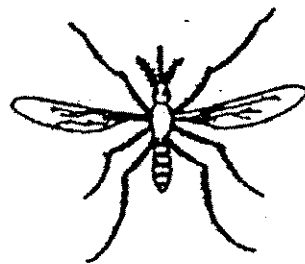
5. The classification table below shows how some animals are grouped.



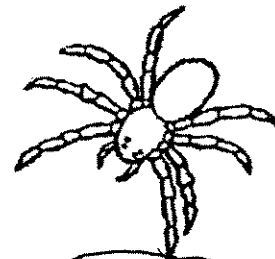
Which one of the following correctly describes the animals in groups X and Z?

	X	Z
(1)	with fins	with flippers
(2)	with legs	with shells
(3)	with scales	with hair
(4)	with gills	with breathing holes

Janice caught some animals, W, X, Y and Z, as shown below.



Animal W



Animal X



Animal Y



Animal Z

Based on the pictures above, answer Questions 6 and 7.

6. Which animal is **NOT** an insect?

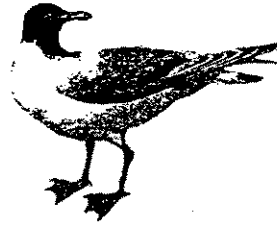
- (1) Animal W
- (2) Animal X
- (3) Animal Y
- (4) Animal Z

7. What are the differences between Animals X and Y?

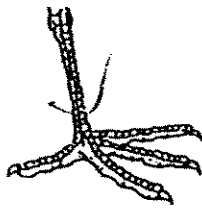
- A X has 8 legs but Y has 6 legs.
- B X has a pair of wings but Y has no wings.
- C X has 2 body parts but Y has 3 body parts.
- D X has 1 pair of legs in each body part but Y has 2 pairs of legs in each body part.

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) C and D only

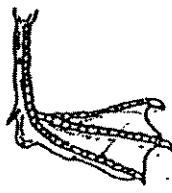
8. The picture below shows an animal which lives near the water.



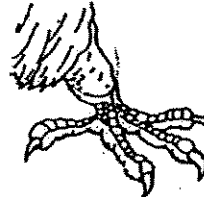
Sam went to the zoo with his parents and saw four animals with the following feet as shown below.



A



B



C



D

Which set of feet, A, B, C and D, was correctly classified in the table below?

	Animals that live near water	Animals that live on land
(1)	A and B	C and D
(2)	A and C	B and D
(3)	B and C	A and D
(4)	B and D	A and C

9. Aminah spotted an animal as shown below.



Aminah said, "It is **NOT** a bird."

Which one of the following characteristics confirms what Aminah said?

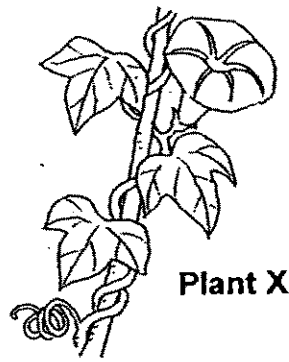
- (1) It can fly.
- (2) It has wings.
- (3) It has two legs.
- (4) It does not have feathers.

10. What is/ are the common characteristic(s) between plants and animals?

- A They can die.
- B They can grow.
- C They give birth to their young.
- D They need air, water and sunlight to make food.

- (1) D only
- (2) A and B only
- (3) A and C only
- (4) B, C and D only

11. Sue described Plant X (as shown below) in the following way:

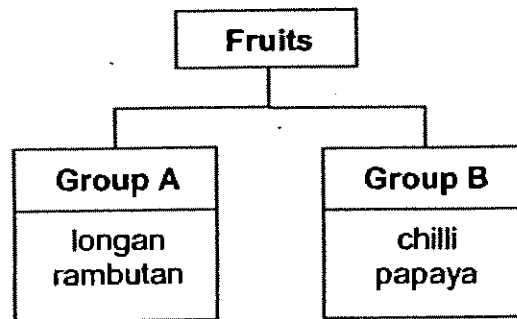


- A It has flowers.
- B It has a weak stem.
- C It can stand upright.
- D It has leaves with jagged edges.

Which of Sue's descriptions of Plant X are **NOT** correct?

- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

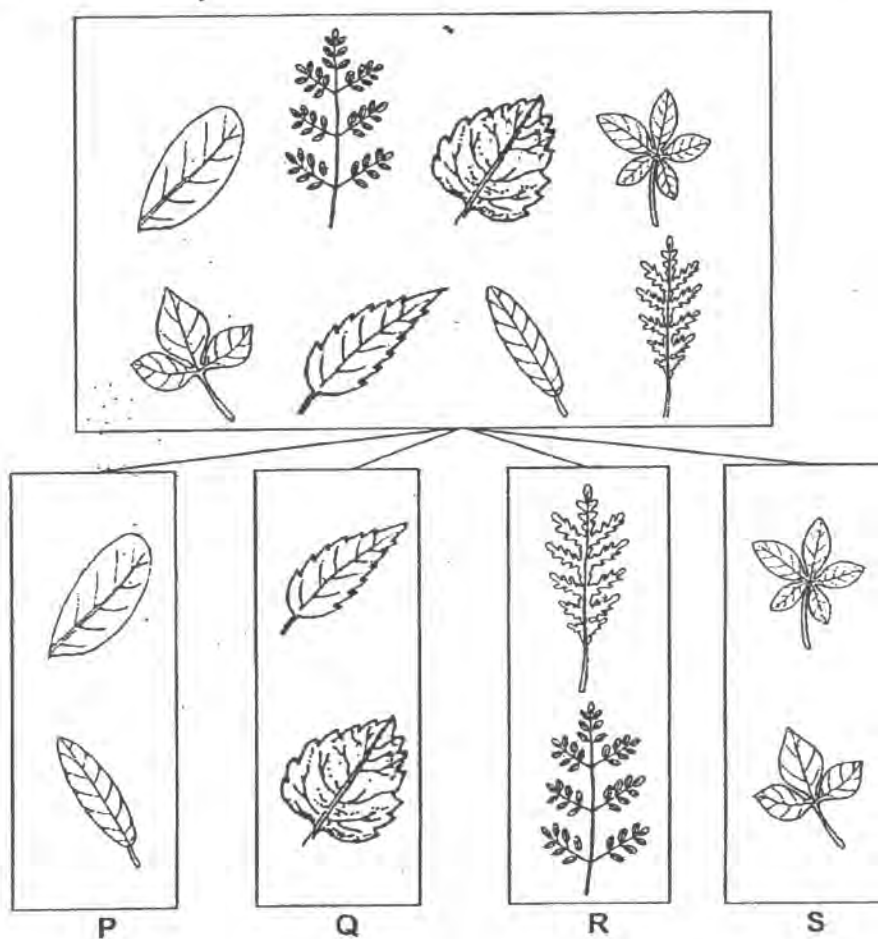
12. Some fruits are classified in the classification chart shown below.



Based on the chart above, how are the fruits grouped?

	Group A	Group B
(1)	edible	inedible
(2)	hairy	non-hairy
(3)	has one seed	has many seeds
(4)	poisonous	non-poisonous

- 18 The diagrams below show how 8 leaves are grouped according to their characteristics.

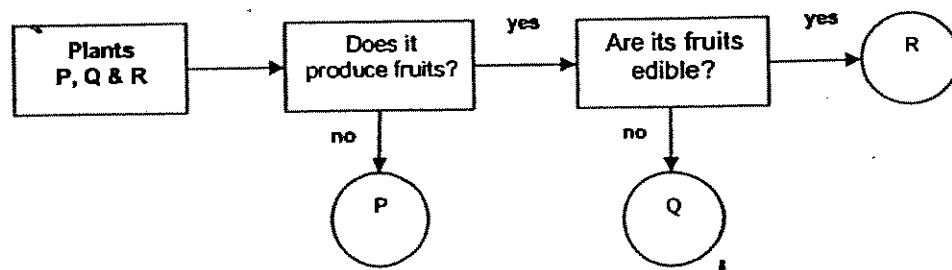


In which of the groups, P, Q, R or S, does the leaf below belong to?



- (1) P
(2) Q
(3) R
(4) S

~~14~~ The flow chart below shows how some plants are differentiated.



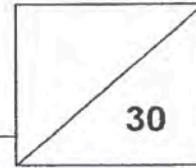
Which one of the following shows the correct examples of P, Q and R?

	P	Q	R
(1)	stag's horn fern	pong pong tree	banana
(2)	ixora	frangipani	tomato
(3)	stag's horn fern	frangipani	pong pong tree
(4)	tomato	ixora	banana

~~15~~ Which one of the following statements about mushroom is **TRUE**?

- (1) Mushrooms have gills.
- (2) All mushrooms are edible.
- (3) Mushrooms reproduce from seeds.
- (4) Mushrooms are non-flowering plants.

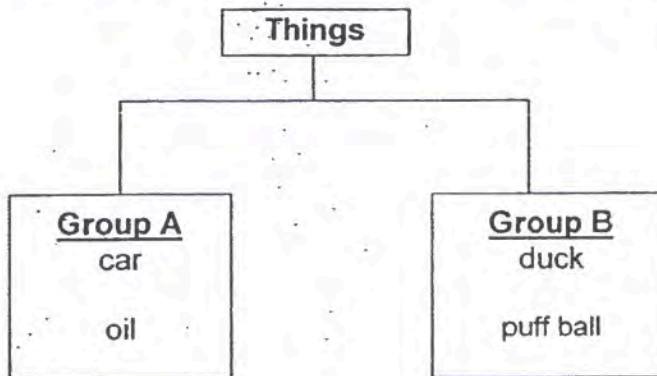
Name : _____ Index No: _____ Class: P3 _____

**SECTION B (30 marks)**

For question 16 to 26, write your answers clearly in the spaces provided.

The number of marks available is shown in brackets [] at the end of each question or part question.

16. The classification chart below shows how some things are grouped.

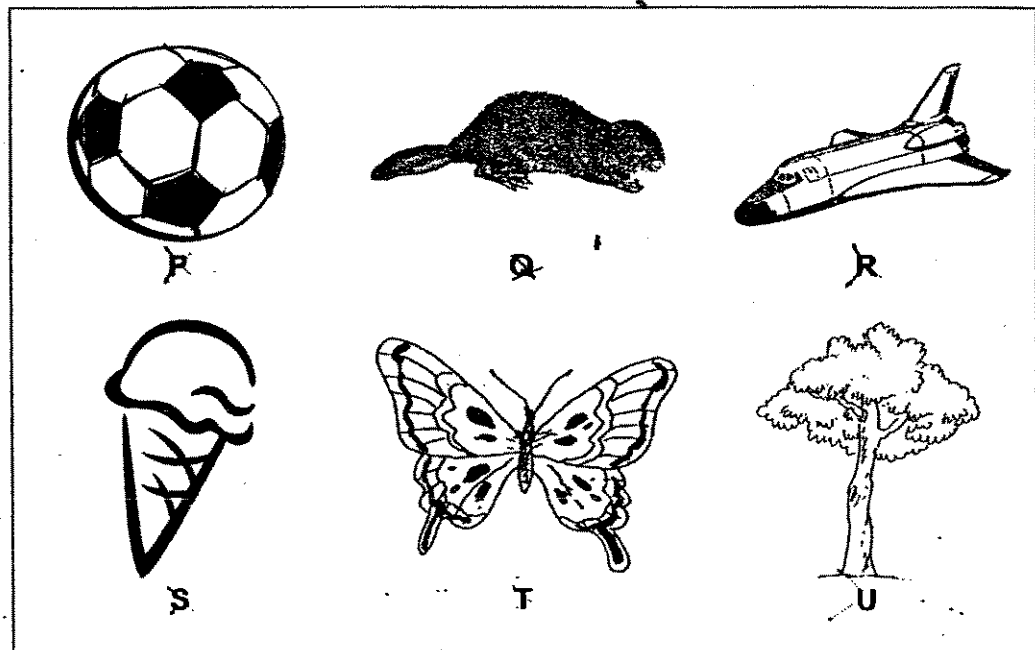


Based on the information above, answer the following questions:

(a) I would place an "electric fan" in Group _____. [1]

(b) Give a reason for your answer in (a). [1]

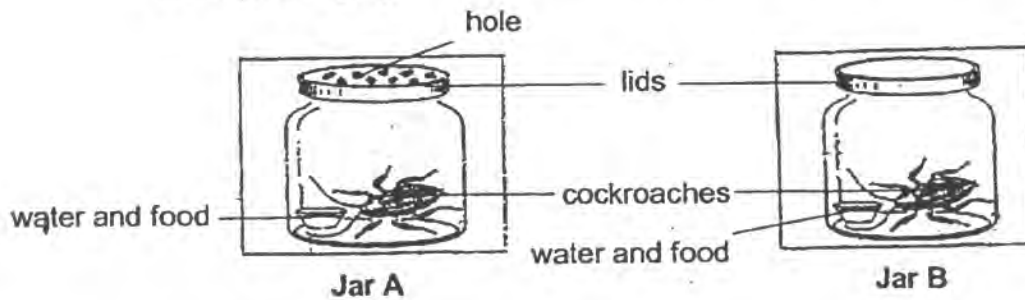
17. (a) Sort the following things into 2 main groups, A and B, in the table given below. Write letters, P, Q, R, S, T and U, only. [2]



A.	B.

- (b) Write a suitable heading for each group to show clearly how you grouped the things given. Write the headings in the boxes A and B above. [1]

18. Ken placed similar cockroaches into each of the 2 identical jars, A and B, as shown below. Jar A had some holes on its lid while Jar B had its lid screwed on tightly:



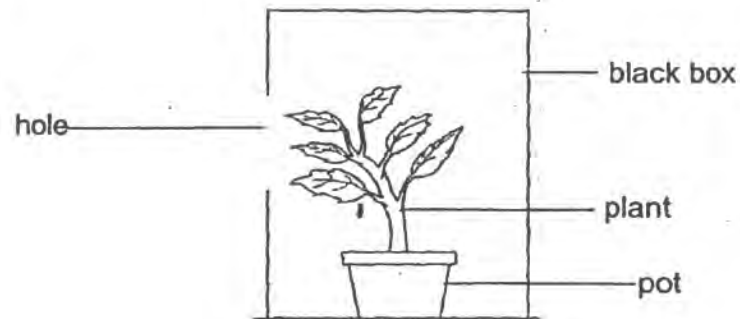
After several days, Ken noticed that the cockroach in Jar B had died.

Based on the information given above, answer the following questions:

- (a) Why did the cockroach in Jar B die? Give a reason. [1]

- (b) What do living things need to survive? [1]

19. Grace put a pot of plant into a black box with a small hole. After a few days, she noticed that the plant, as shown below, was growing towards the hole.



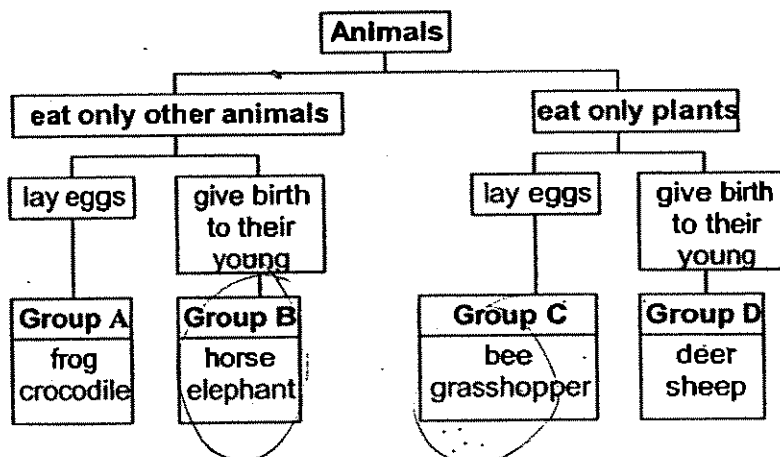
- (a) Explain why the plant was growing towards the hole.

[1]

- (b) Name one characteristic of living things that is shown in this experiment.

[1]

20. Some animals are classified as shown below.



Based on the information above, answer the following questions:

- (a) Which group of animals, A, B, C or D, has been incorrectly grouped? [1]




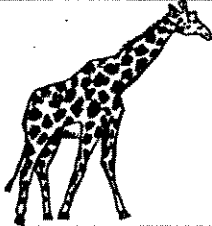
- (b) Give one reason for your answer in (a). [1]

- (c) Give **TWO** characteristics of the animals in Group C. [1]

Characteristic 1	
Characteristic 2	

21. (a) Match each animal to its distinct characteristics.
Each dot is used **ONCE** only.

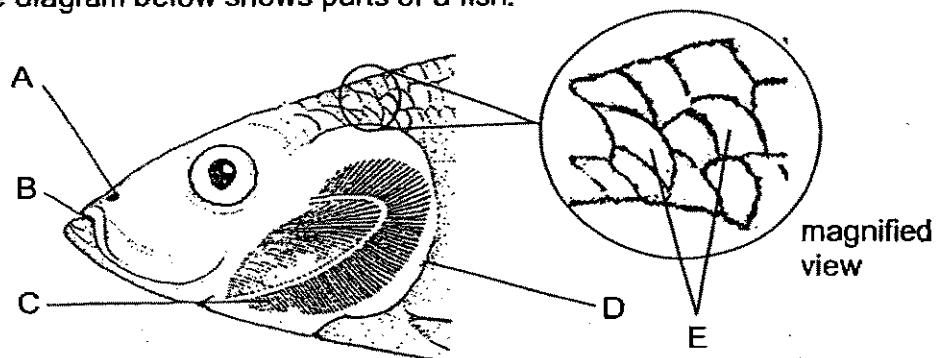
[2]

			
W	X	Y	Z
•	•	•	•
•	•	•	•
has 3 body parts	has a pair of wings	has a pair of fins	gives birth to its young

- (b) Based on the given pictures above, what **OTHER** characteristics does W have that classify it a bird? Name one such characteristic.

[1]

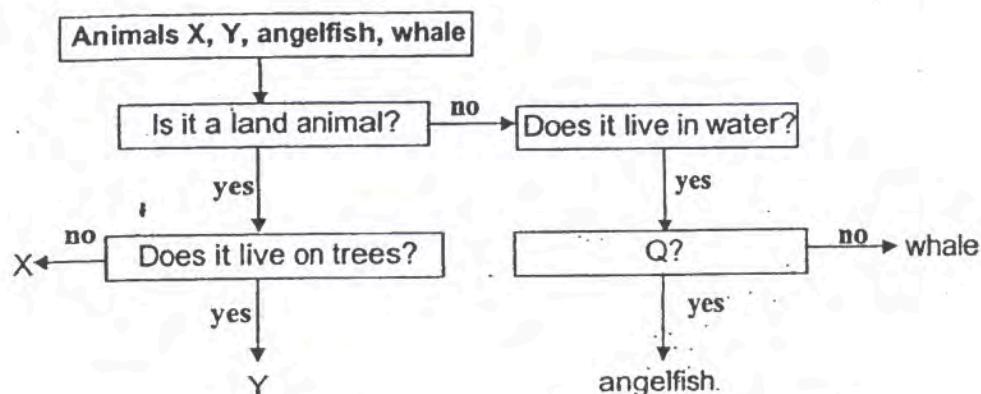
The diagram below shows parts of a fish.



- (c) Which part of the fish helps it to exchange carbon dioxide with oxygen? Write only letter A, B, C, D or E in the box below. [1]

- (d) How does part E help the fish? [1]

22. The chart below shows how different animals are classified according to certain characteristics.



Based on the information above, answer the following questions:

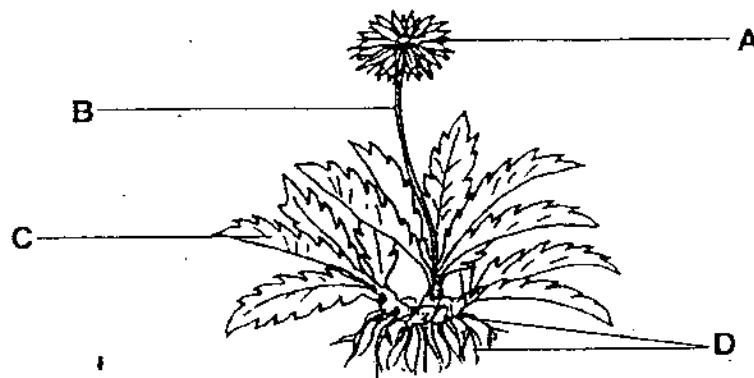
- (a) Rave is given a list of animals. He has to identify them correctly. Write letter X or Y to differentiate the animals in the table below. [1]

Animals	Group
crow	
tiger	
monkey	

- (b) Write down a suitable question for box 'Q'.
(Do **NOT** write down questions involving shape, colour and size.) [1]

- (c) Name **ANOTHER** animal that can be put in the same group as 'whale'. [1]

23. A, B, C and D are parts of a plant as shown below.



- (a) Identify the roots and ^{leaf}~~stem~~ of the plant above.
Write letters, A, B, C or D, in the table below.

[1]

Parts of the plant	
leaf	
roots	

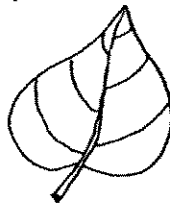
- (b) State one reason why roots are important.

[1]

24. The pictures below show different types of leaves.



C



D

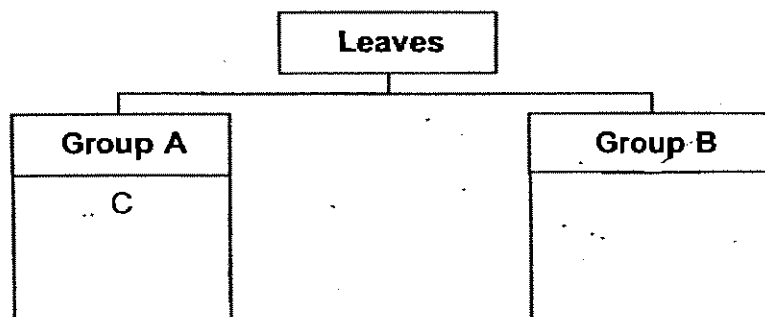


E



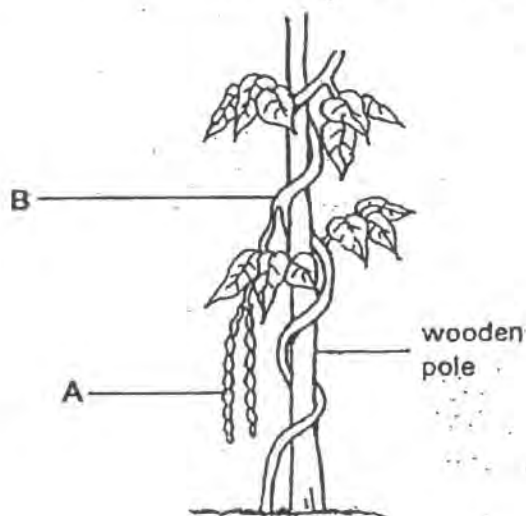
F

- (a) Classify the leaves given above into two groups. Write letters, D, E and F, only. Letter C is written down for you. [1]



- (b) Name the substance present in the leaves which helps plants to make food. [1]
-

25. The diagram below shows a plant growing in the garden.



Based on the diagram above, answer the following questions:

(a) Name the parts, A and B.

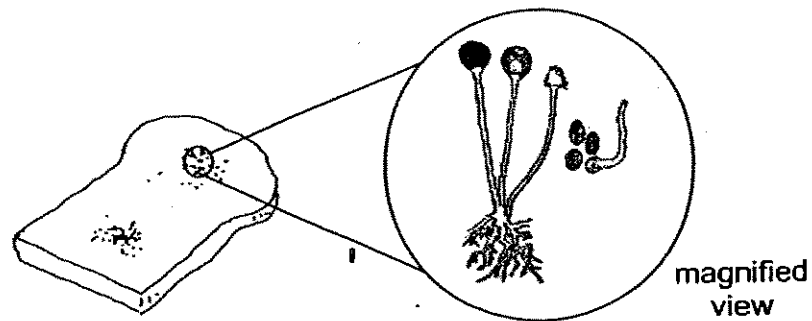
[1]

A	
B	

(b) How does the wooden pole help the plant?

[1]

26. The picture below shows bread mould seen under the microscope.

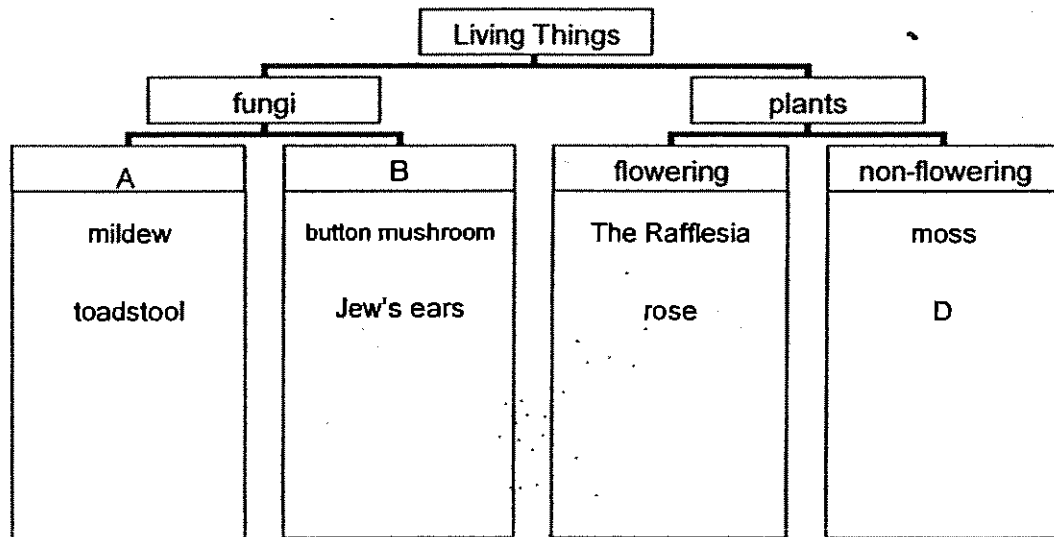


Based on the information given above, answer the following questions:

- (a) How does the bread mould reproduce? [1]

- (b) Sam said, "The bread mould is a plant." Do you agree with him? Give a reason for your answer. [1]

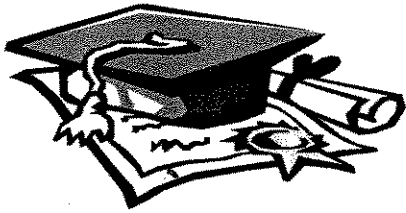
- (c) Using the classification table shown below, write 'bread mould' in the correct group. [1]



- (d) Give a specific example of plant 'D'. [1]

- END OF PAPER -

Setters: Mrs. Elaine Lim
Mrs. Anna Fong
Mr. Johnson Ong
Mrs. Sueann Kong



ANSWER SHEET

RAFFLES GIRLS PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 2

2. 2

3. 4

4. 4

5. 3

6. 2

7. 2

8. 4

9. 4

10. 2

11. 4

12. 3

13. 1

14. 1

15. 1

16) a) A

b) It is because an "electric fan" is a non-living and things in Group A are non-living things.

17) a) A. Living things → O, T, U

b) B. Non-living things → P, R, S

18) a) It is because the lid on Jar B does not allow come in. Living things need air to survive.

b) Living things need air food and water to survive.

19) a) It needs sunlight to made food.

b) Plants respond to change around them.

20) a) Group B

b) They eat plants only.

c) 1: lay eggs

2: They eat only plants.

21) a)



b) It has a beak and feather.

c) C

d) Part E protect the fish from injuries.

- 22) a) Y, X, Y
b) Does it lay eggs?
c) Dolphin can be put in the same group of whales.
- 23) a) C, D
b) They help to absorb water.
- 24) a) Group A: C, F
Group B: D, E
b) It is chlorophyll.
- 25) a) A: fruit B: stem
b) It helps the plant to stand up right.
- 26) a) It reproduce by spores.
b) I do not agree with him, It is because bread
mould does not have chlorophyll but plants have.
c) A) bread mould.



HENRY PARK PRIMARY SCHOOL

SEMESTRAL EXAMINATION I

2007

SCIENCE

PRIMARY 3

BOOKLET A

Name: _____ ()

Class: Primary 3 _____

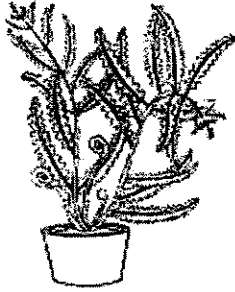

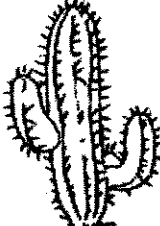

**30 Questions
60 Marks**

Total Time for Booklets A and B: 1 h 40 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

3. Look at the table below. It shows two groups of living things.

Group A	Group B
	
<p>Fern</p>	<p>Toadstools</p>
	
<p>Cactus</p>	<p>Mushrooms</p>

Which of the following statements about the two groups of living things is/are **false**?

- A. The living things in Group A are plants.
- B. The living things in Group B are fungi.
- C. Living things in Groups A and B feed on decaying logs.

- (1) B only
- (2) C only
- (3) A and B only
- (4) A and C only

()

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which of the following objects are made from things that were once alive?



Drinking water

A



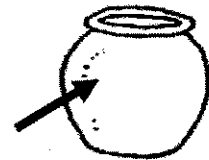
Wooden spoon

B



Paper plate

C



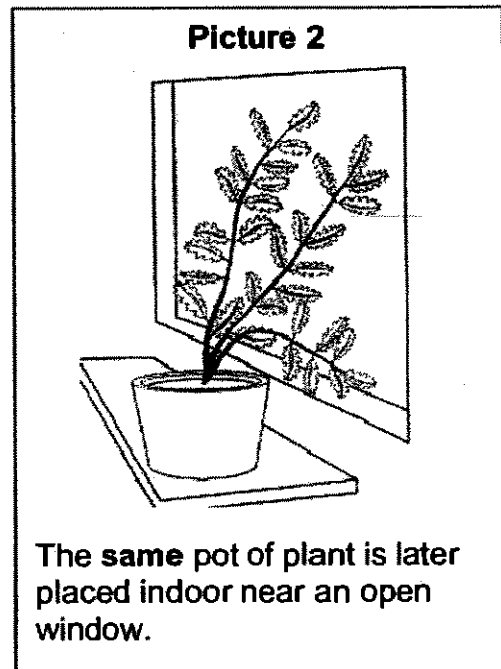
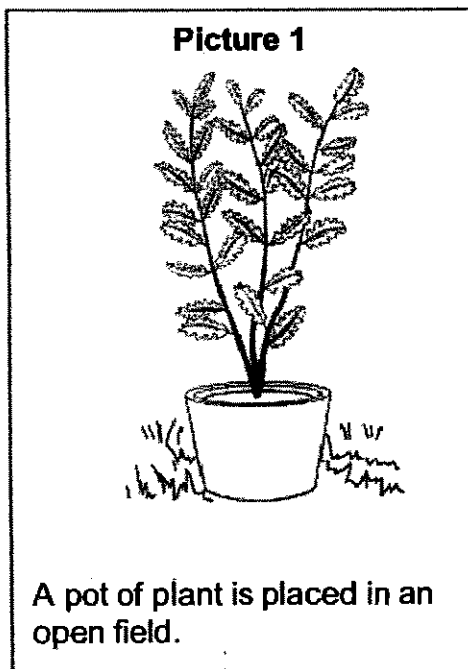
Clay pot

D

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) B and D only

()

2. Picture 1 shows a pot of plant placed in an open field for a few days. After that, the **same** pot of plant is placed indoor near an open window as shown in Picture 2.

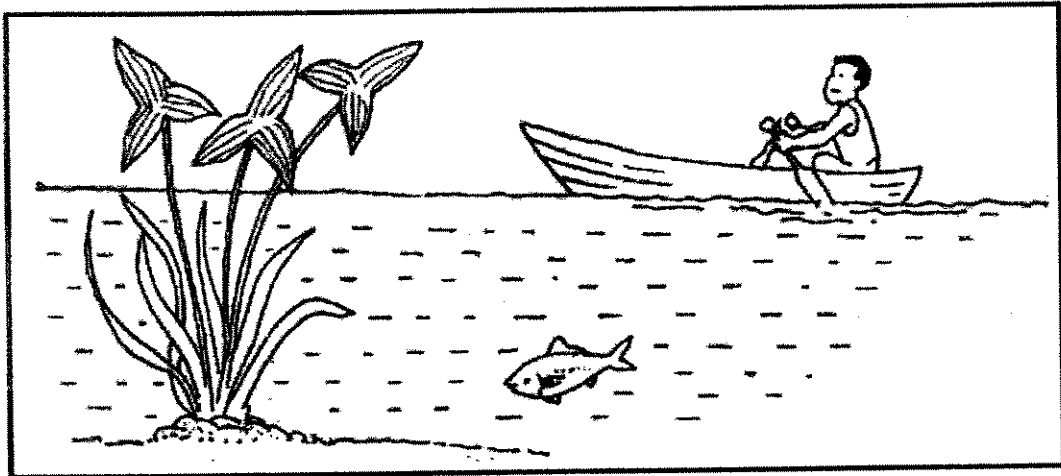


The pictures above shows that a plant _____.

- (1) can die
- (2) can reproduce
- (3) needs water
- (4) responds to changes around it

()

4. Look at the picture below.



How many living things can you find in the picture?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

()

5. Which of the following characteristics describe the living things **correctly** in the table below?

	Characteristics	Living Things
(1)	Feed on decaying matter	Animals
(2)	Can make food	Fungi
(3)	Can move from place to place by themselves	Plants
(4)	Depend on other living things for food	Animals

()

6. The table below shows how some organisms have been grouped according to their characteristics.

Group A	Group B
Turtle	Cat
Ostrich	Cow
Grasshopper	Guppy
Spiny Anteater	Whale

Which of the following would be suitable headings for Groups A and B?

	Group A	Group B
(1)	Eats only plants	Eats only animals
(2)	Lays eggs	Give birth to their young
(3)	Outer covering of shell	Outer covering of hair
(4)	Live in water	Live on land

()

7. Which of the following statements are true of all birds?

- A. All birds lay eggs.
- B. All birds can fly.
- C. All birds have beaks.

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

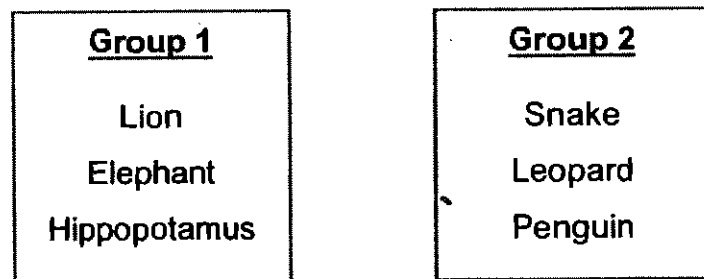
()

8. The table below shows the characteristics of 4 animals, A, B, C and D.
(✓) means the animal has the characteristic and (X) means it does not.
Which animal is most likely a fish?

	Animal	Has fins	Has hair on its body	Reproduce by laying eggs	Live in water
(1)	A	X	✓	✓	X
(2)	B	✓	X	X	X
(3)	C	✓	X	✓	✓
(4)	D	X	✓	X	✓

()

9. A zookeeper put his animals into 2 groups according to the food they eat.

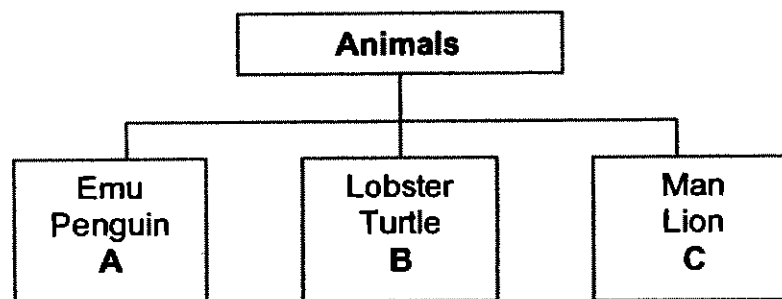


Which animal is **wrongly** placed in the groups above?

- (1) Lion
- (2) Snake
- (3) Penguin
- (4) Elephant

()

10. The animals below are grouped according to their outer coverings.



What animals are A, B and C likely to be?

	A	B	C
(1)	Sparrow	Snail	Crocodile
(2)	Jellyfish	Prawn	Dog
(3)	Bat	Lizard	Zebra
(4)	Peacock	Crab	Pig

()

11. Look at Animal W below.



Animal W

Which of the following body shape is similar to that of Animal W?

(1)



(2)



(3)



(4)



()

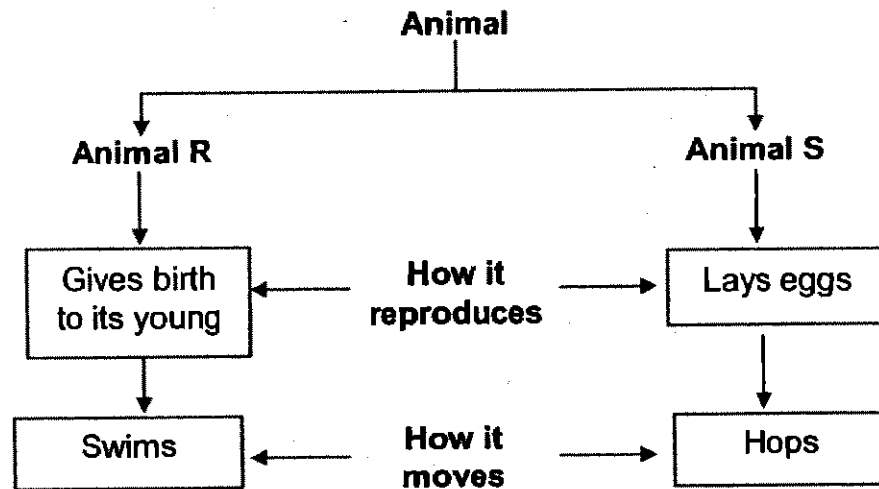
12. Which of the following statements correctly describes all insects?

- A. All insects have a pair of wings.✗
- B. All insects reproduce by laying eggs.✓
- C. The bodies of insects are divided into 3 parts.✓
- D. All insects have six legs.✓

- (1) A, B and C only
- (2) A, C and D only
- (3) B, C and D only
- (4) A, B, C and D

()

13. The graphic organizer below shows the differences between 2 animals.

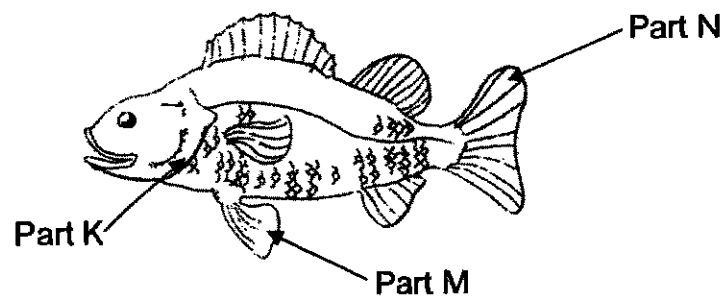


Which of the options below will complete the graphic organizer correctly?

	Animal R	Animal S
(1)	Whale	Ostrich
(2)	Guppy	Frog
(3)	Crocodile	Mosquito
(4)	Dog	Rabbit

()

14. The picture below shows a fish.



Which part(s) of the fish help(s) it to move in the water?

- (1) K only
- (2) N only
- (3) K and N only
- (4) M and N only

()

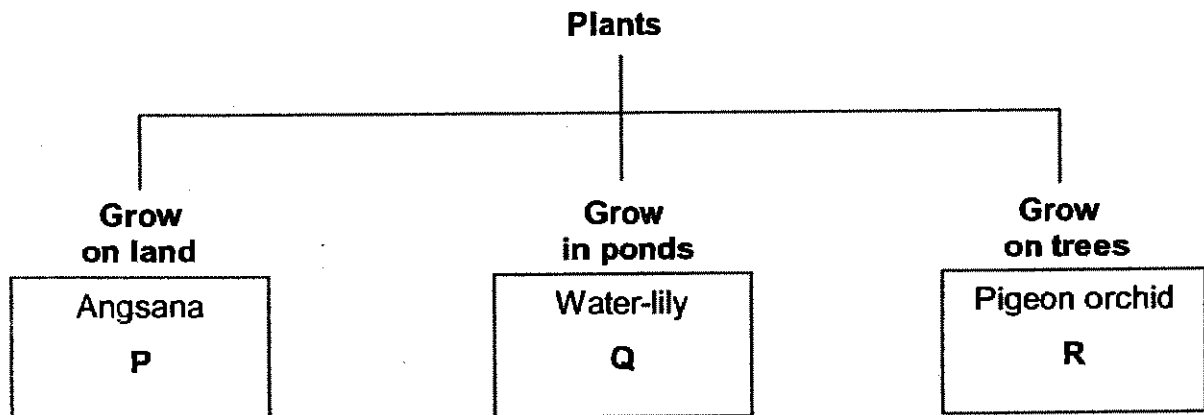
15. The table below shows some comparisons between a balsam plant and a deer. Which one is **wrong**?

	Deer	Balsam plant
A	Moves around very quickly	Moves very slowly
B	Able to move from place to place by itself	Cannot move from place to place by itself
C	Makes its own food	Makes its own food

- (1) B only
 (2) C only
 (3) A and B only
 (4) A and C only

()

16. The classification chart below shows how some plants are grouped.



What are plants P, Q and R likely to be?

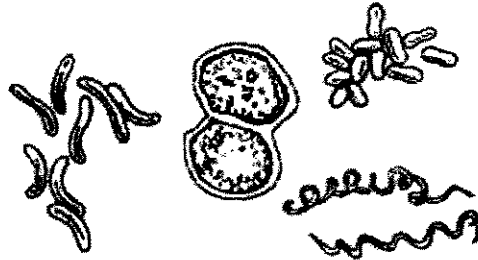
	P	Q	R
(1)	frangipani	hydrilla	bird's nest fern
(2)	morning glory	lotus	cactus
(3)	money plant	coconut	mushroom
(4)	moss	arrowhead	water lettuce

()

17. Bacteria are micro-organisms.

They can only be seen with the use of a special instrument. What instrument is that?

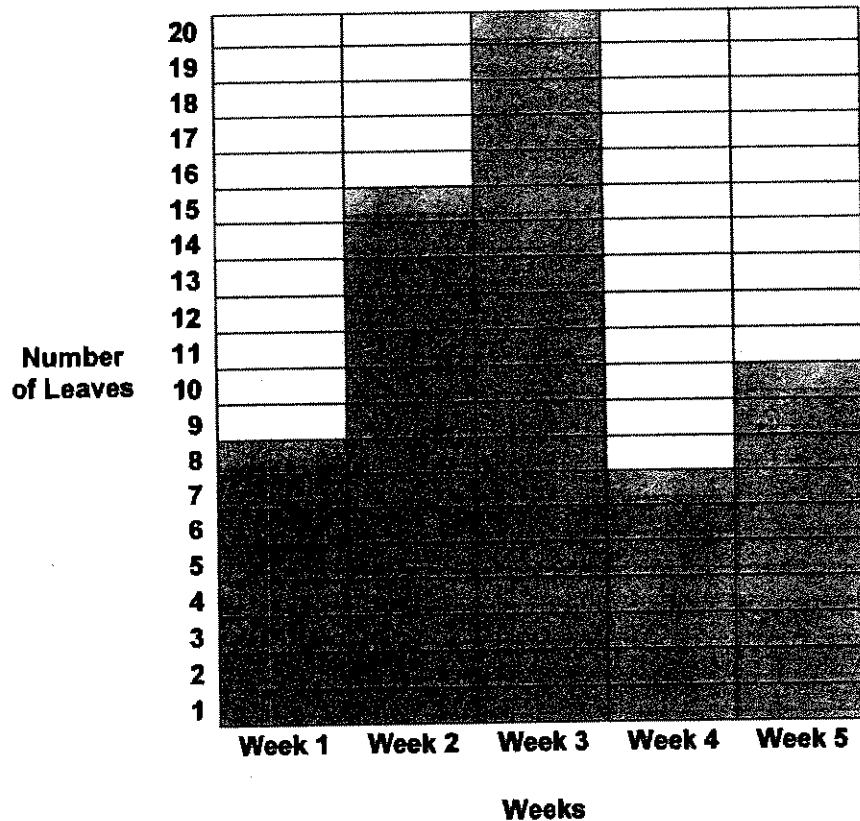
Different Types of Bacteria



- (1) binoculars
- (2) telescope
- (3) microscope
- (4) magnifying glass

()

The graph below shows the number of leaves on a rose plant over 5 weeks.
Study it carefully and use it to answer questions 18 and 19.



18. When does the rose plant have the **most** leaves on its branches?

- (1) Week 2
- (2) Week 3
- (3) Week 4
- (4) Week 5

()

19. There is a sudden drop in the number of leaves in Week 4.
What could be the possible reasons for this?

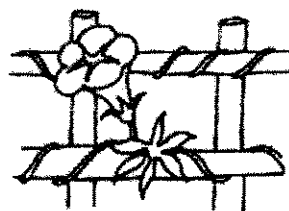
- A. The plant stopped growing. ✗
- B. The owner forgot to water it in Week 3. ✓
- C. It was infected with a plant disease. ✓
- D. Mum plucked 4 leaves in Week 2. ✗

- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

()



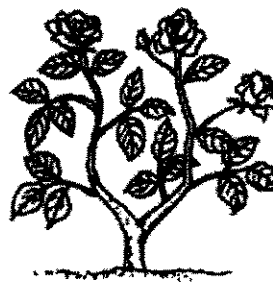
A



B



C

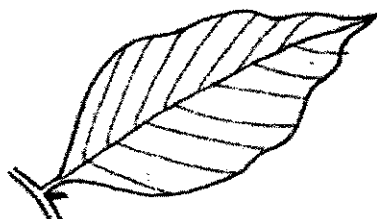


D

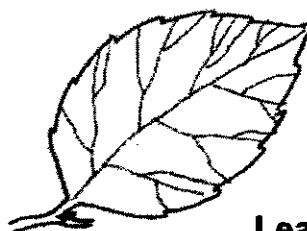
- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

()

21. Study the two leaves below.



Leaf A



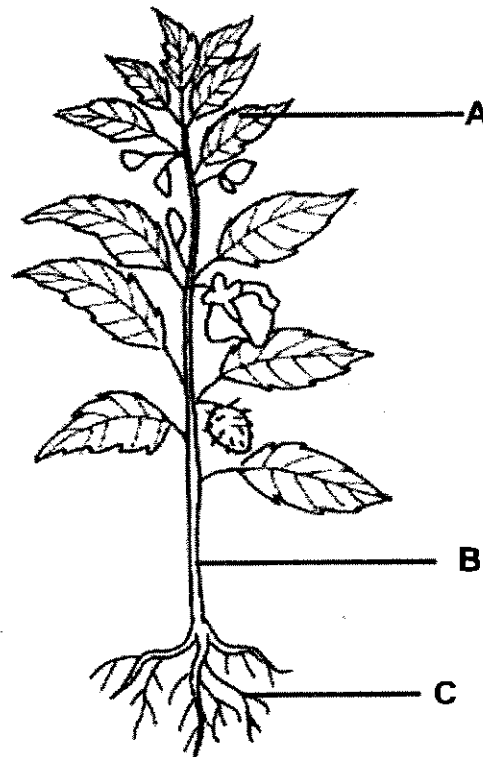
Leaf B

Which sentence is **incorrect** about the two leaves above?

- (1) Both have leaf stalks.
- (2) Both have different edges.
- (3) Both have similar vein patterns.
- (4) Both have different leaf shapes.

()

22. The picture below shows a balsam plant.



Identify the following parts of the balsam plant.

	A	B	C
(1)	leaf	stem	root
(2)	flower	leaf	stem
(3)	stem	root	flower
(4)	leaf	root	stem

()

23. Three boys wrote the following statements after observing some plants.

Tom: Ferns are non-flowering plants.

Fred: All shrubs have flowers that grow in clusters.

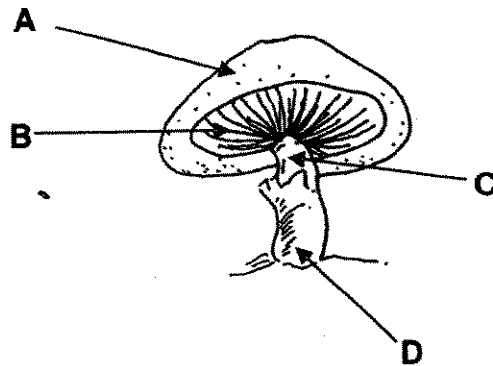
Max: The money plant is a non-flowering plant.

Whose statement is **correct**?

- (1) Tom only
- (2) Fred only
- (3) Fred and Max only
- (4) Tom and Max only

()

24. The picture shows a mushroom.



In which of the above parts are the spores formed in a mushroom?

- (1) A
- (2) B
- (3) C
- (4) D

()

25. Which of the following objects are made from the same material?



A: Tyre



B: Wine glass



C: Basketball

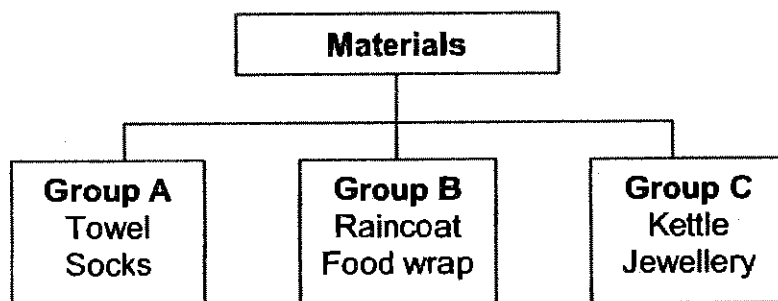


D: Toilet roll

- (1) A and B only
- (2) A and C only
- (3) B and D only
- (4) C and D only

()

26. Some objects have been classified according to the materials they are made of.



Which of the following would be the most suitable headings for the 3 groups?

	A	B	C
(1)	Cloth	Rubber	Plastics
(2)	Metals	Clay	Leather
(3)	Cloth	Plastics	Metals
(4)	Rubber	Metals	Wood

()

27. The table below shows the characteristics of some materials.

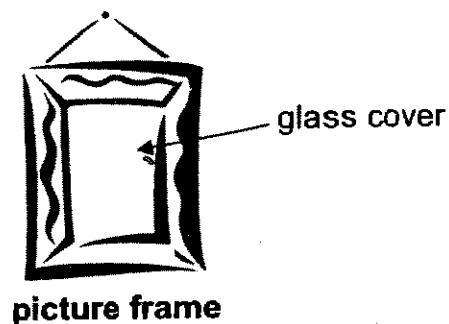
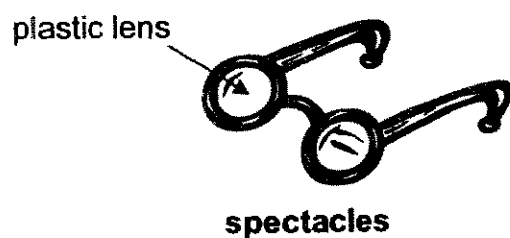
Material	Flexible	Waterproof	Can see through	Floats in water
A	Yes	Yes	No	No
B	Yes	No	Yes	No
C	No	Yes	No	Yes
D	No	No	No	Yes

Which material is likely to be wood?

- (1) A
- (2) B
- (3) C
- (4) D

()

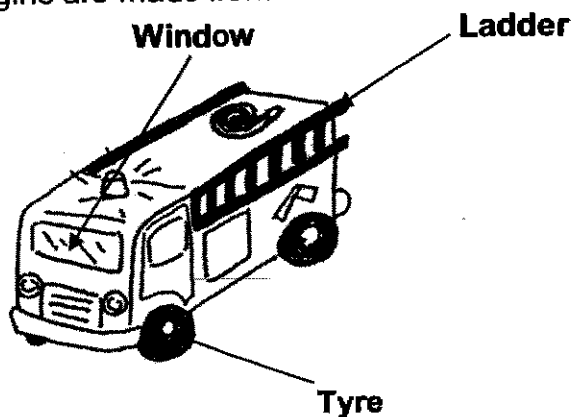
28. Look at the two objects below.



Which characteristic of glass and plastic makes them suitable for making the two objects?

- (1) Both are flexible.
- (2) Both are fragile.
- (3) Both are opaque.
- (4) Both are transparent.

29. Below is a picture of a **real** fire engine.
Different parts of a fire engine are made from different materials.

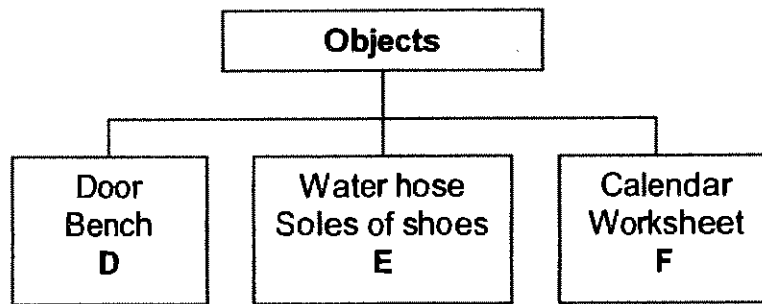


Real Fire Engine

What are the likely materials used to make the different parts?

	Ladder	Window	Tyre
(1)	Plastic	Glass	Rubber
(2)	Metal	Wood	Plastic
(3)	Rubber	Plastic	Metal
(4)	Metal	Glass	Rubber

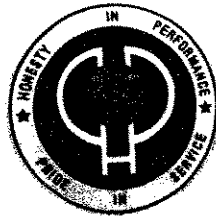
30. Some objects are grouped according to the material they are made of.



What objects are D, E and F likely to be?

	D	E	F
(1)	Table	Eraser	Book
(2)	Bricks	Tyres	Ruler
(3)	Bag	Cup	Pencil
(4)	Curtains	Raincoat	Spoon

()



HENRY PARK PRIMARY SCHOOL

SEMESTRAL EXAMINATION I

2007

SCIENCE

PRIMARY 3

BOOKLET B

Name: _____ ()

Class: Primary 3 _____

**16 Questions
40 Marks**

Total Time for Booklets A and B: 1 h 40 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

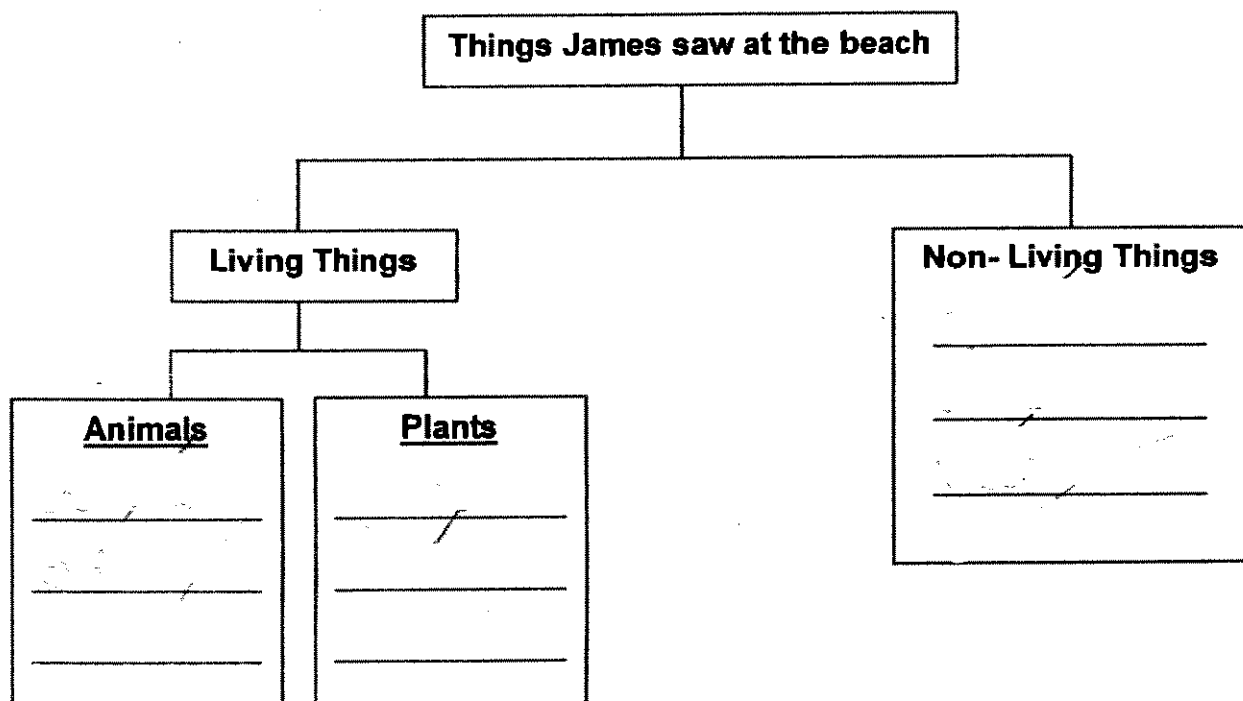
PART 2 (40 marks)

Write your answers to questions 31 to 46 in the spaces given.

31. James saw the following things when he was at the beach last Sunday.

sparrow	sand	crab
water	grass	boat

He decided to classify these things into different groups below. Help James to put them in the groups correctly. (3 marks)



32. Peter took a stroll in the garden and he picked up some things. He put them into 2 groups based on their similar characteristics. He put one group in Container K and the other group in Container L. He placed some leaves in both containers. He observed them for 2 weeks and these were his findings:

Observation Table

	Container K	Container L
A	Moved slowly most of the time	No movement at all
B	Curled up when touched	No reaction when touched
C	Fed on leaves	Leaves left untouched
D	Had young after 2 weeks	No young after 2 weeks

- (a) What do you think are in the containers? (1 mark)
Use the words, **“living things”** or **“non-living things”** to fill in the blanks below.

Container K: _____

Container L: _____

- (b) Write the statement from the observation table that tells you that the things responded to changes. (1 mark)

- (c) State the characteristic of living things that is shown in D. (1 mark)

33. Rajiv spent some days observing Animal T. He then wrote a report on the animal.

Rajiv's report

Animal T:

☐

Feeds on fruits and insects so it is an animal and plant eater.

☐

Is a bird because it has a pair of wings and is able to fly.

☐

Has hair for its outer covering.

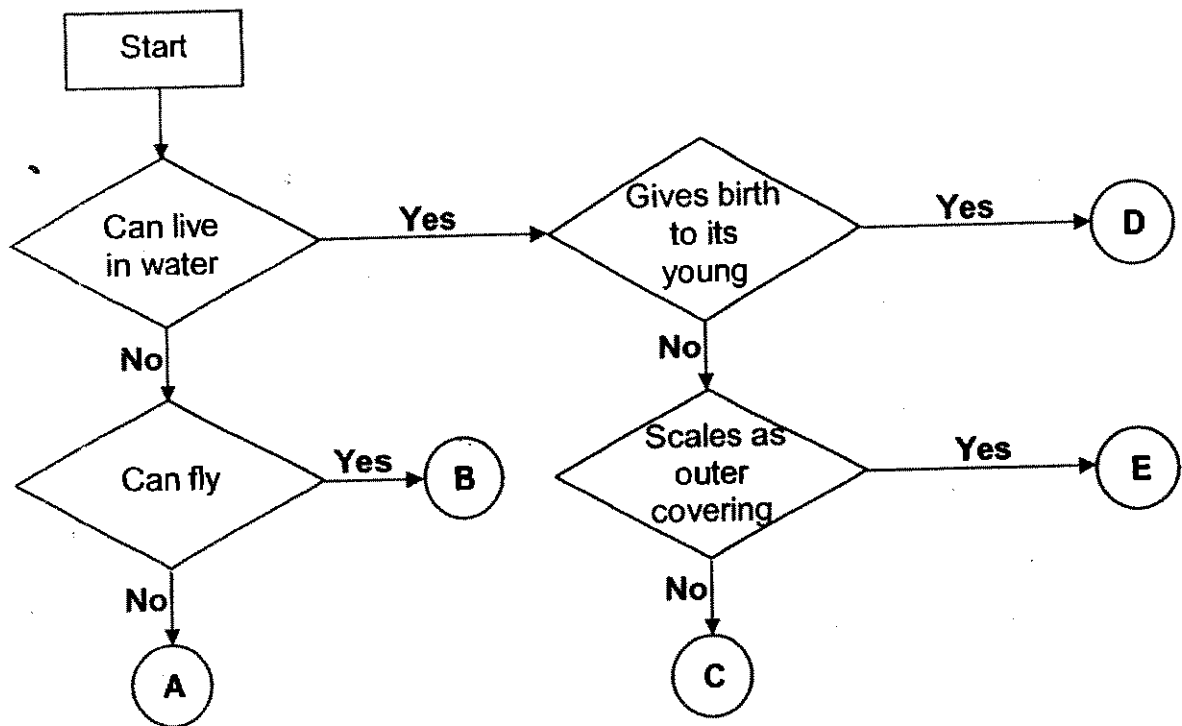
☐

Gives birth to its young.

(a) One of the statements in his report is a wrong fact. Put a cross (X) in the box of the wrong statement. (1 mark)

(b) One of the statements in the report describes the characteristic of **all mammals**. Put a tick (✓) in the box of this statement. (1 mark)

34. Study the chart carefully. A, B, C, D and E are animals.



A parrot cannot live in water and can fly, so it is placed at B.
Match the animals given in the box below with the correct letters to complete the chart. Use each animal once only. (4 marks)

Dolphin	Frog	Goldfish	Dog
--------------------	-----------------	---------------------	----------------

Animal A	Animal C	Animal D	Animal E

35. Look at Animals P and Q.

Based only on what can be observed from the pictures, answer parts (a) and (b).



Animal P



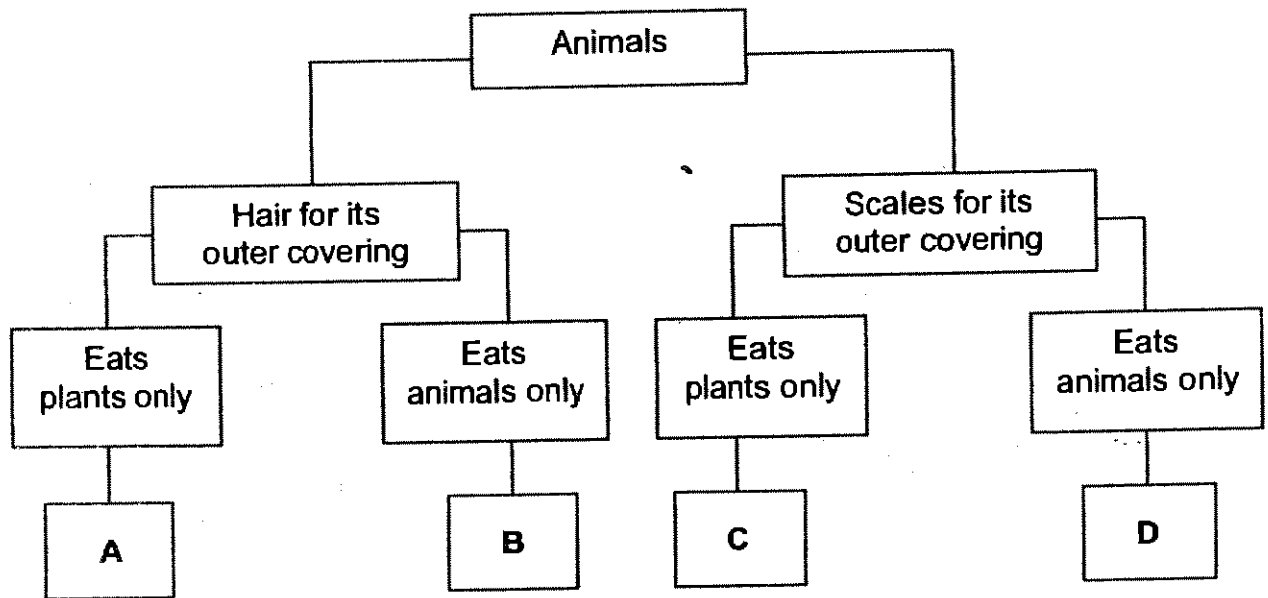
Animal Q

(a) State **one similarity** between Animals P and Q. (1 mark)

(b) State **two differences** between Animal P and Q. (2 marks)

Animal P	Animal Q
(i)	(i)
(ii)	(ii)

36. The following diagram shows a classification chart.



(a) Write down one similarity and one difference between **Animals A and C**. (2 marks)

Similarity - _____

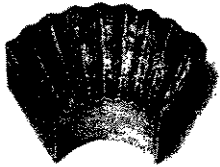
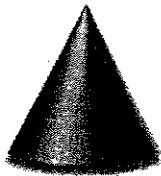
Difference - _____

(b) Which one of the above animals, A, B, C or D, is likely to be a **lion**? (1 mark)

Animal: _____

37. (a) Draw lines to join the dots to match the shapes to the trees with the similar shape.
(2 marks)

Shapes



Trees



A



B



C

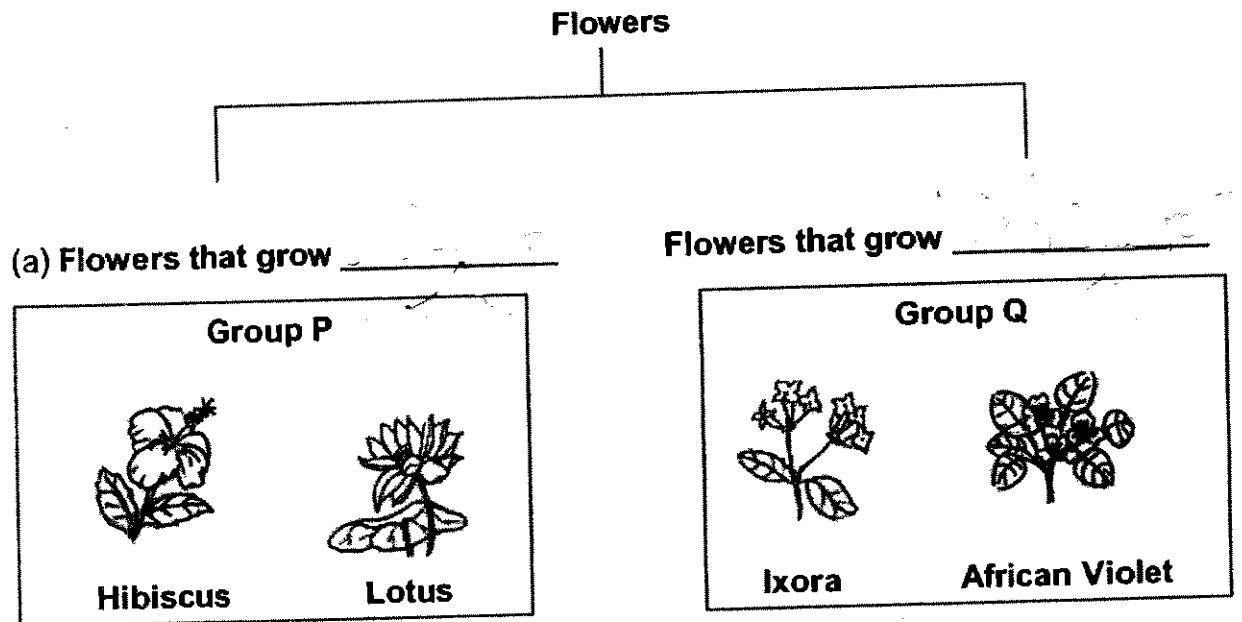


D

- (b) Which of the trees, A, B, C, or D, gives us the most shade? (1 mark)

Tree: _____

38. Ann classified some flowers into 2 groups, P and Q. Fill in the blanks to complete the classification table.



(1 mark)

- (b) In which group, P or Q, would you put

(i) Frangipani: _____

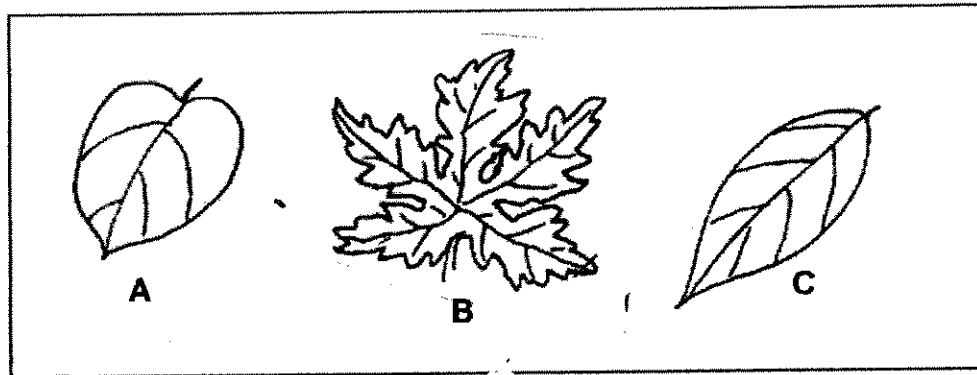


(ii) Sunflower: _____



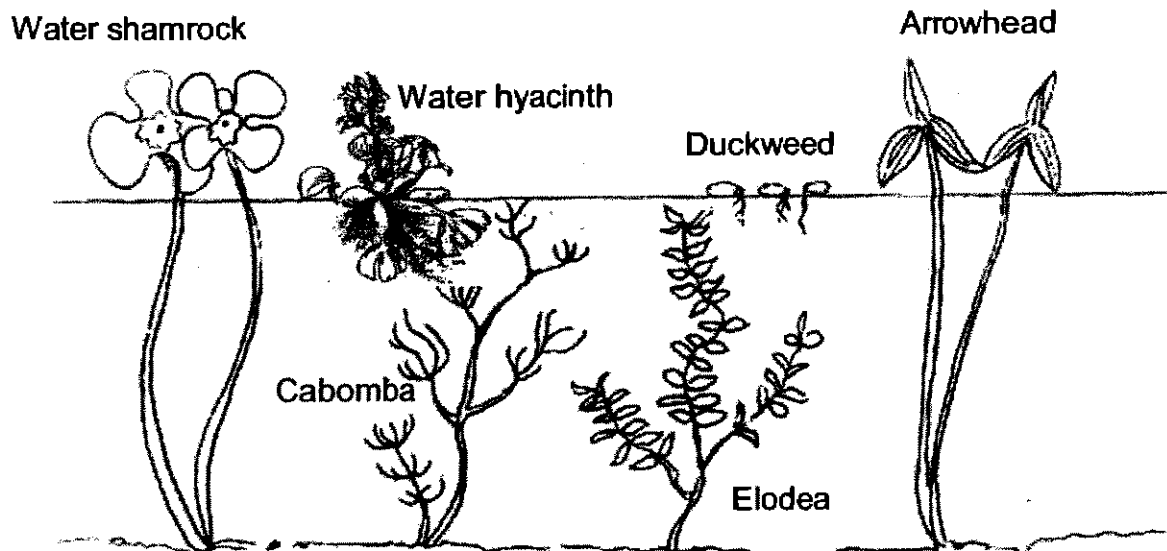
(1 mark)

39. (a) Circle the leaf that is different from the other two leaves. (1 mark)



(b) In what way is the leaf that you have chosen different from the other two leaves? (2 marks)

40. Look at the water plants in the picture.



Based on what you can see from the picture above, complete the table using all the water plants. The first two are done for you. (2 marks)

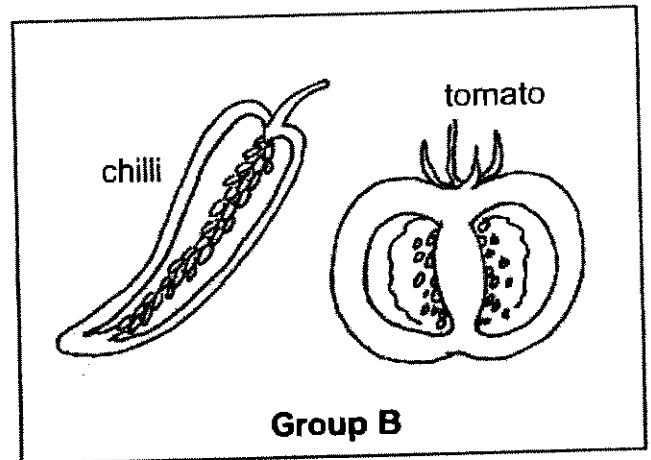
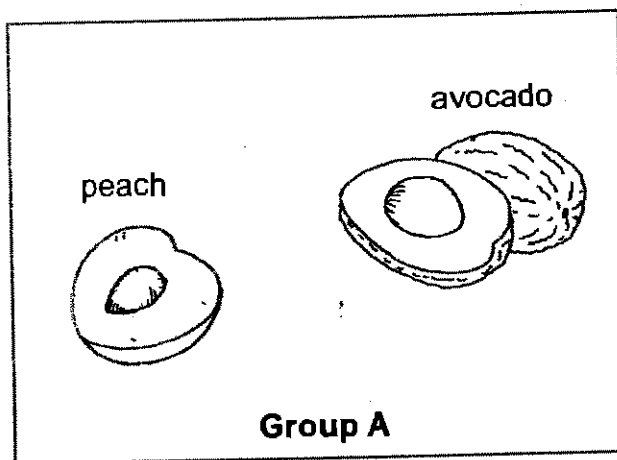
Floating plants	Half-submerged plants	Fully-submerged plants
water hyacinth	water shamrock	

A

B

C

41. Look at these 2 groups of fruit carefully. Based on what you can observe from the pictures, answer the questions that follow.



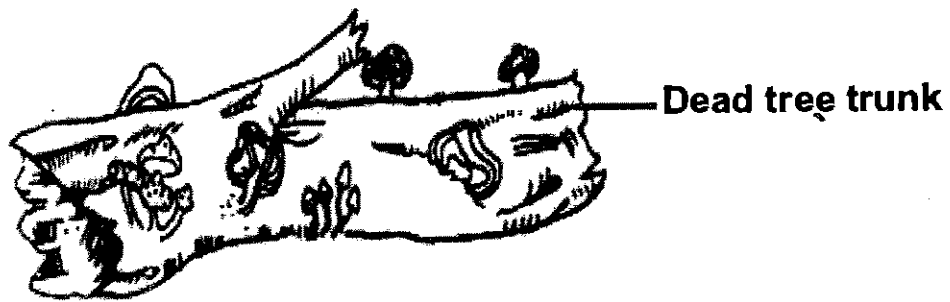
- (a) State **one similarity** between the fruit in Group A and Group B. (1 mark)

- (b) How are the fruit grouped? (1 mark)

Group A: _____

Group B: _____

42. Some children were asked to observe the living things growing on the dead tree trunk as shown below.



Calvin wrote the following two statements in his Science Log Book.

Statement 1: The living things on the dead log are plants.

Statement 2: They are able to reproduce by seeds.

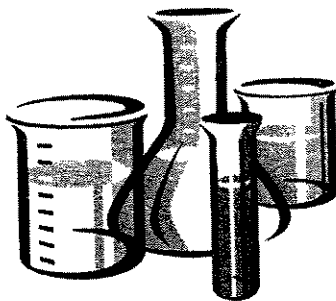
His Science teacher told him that the two statements were wrong.

Rewrite the statements so that they are correct. (2 marks)

Statement 1:

Statement 2:

43. Hakim is a scientist who carries out experiments in a laboratory using the containers below. During his experiments, he needs to be able to see the changes in the things he places in the containers.



- (a) What material is likely to be used to make the containers Hakim use? (1/2 mark)

- (b) State one reason for your choice of material for part (a). (1 mark)

44. Look at the different pairs of gloves below.



Rubber gloves



Cloth gloves

Mrs Lee wants to wash some dishes but she does not want her hands to get wet.

- (a) Which pair of gloves should she use? (1/2 mark)

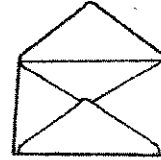
- (b) State one reason for your choice of glove for part (a). (1 mark)



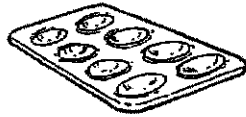
Nail clipper



Flower pot



Envelope



Baking tray



Ceramic bowl



Frying pan

Classify the objects according to the materials they are made from. (3 marks)

Clay

A rectangular box with a black border, intended for listing objects made of clay.

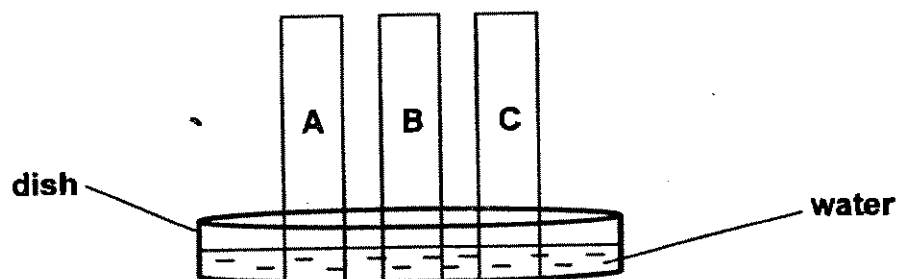
Metal

A rectangular box with a black border, intended for listing objects made of metal.

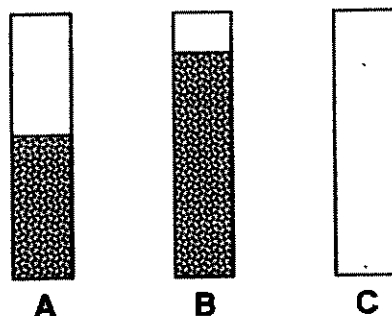
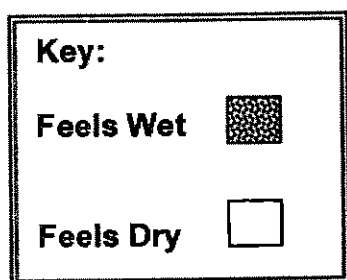
Wood

A rectangular box with a black border, intended for listing objects made of wood.

46. Stacey placed strips of 3 different materials, A, B and C into a dish of water. The strips are of the same length.



The diagram below shows what happened to the 3 strips after one hour.

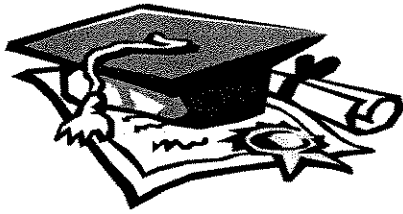


- (a) Which material, A, B or C, is likely to be used to make a water bottle? (1 mark)

Material: _____

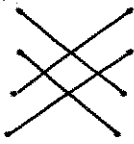
- (b) State one reason for your choice of material for part (a). (1 mark)

Setters:
Mrs Mona Leong
Mrs Joyce Wee



ANSWER SHEET

HENRY PARK PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3
 2. 4
 3. 2
 4. 3
 5. 4
 6. 2
 7. 2
 8. 3
 9. 1
 10. 4
 11. 2
 12. 3
 13. 2
 14. 4
 15. 2
 16. 1
 17. 3
 18. 2
 19. 3
 20. 3
 21. 4
 22. 1
 23. 1
 24. 2
 25. 2
 26. 3
 27. 4
 28. 4
 29. 4
 30. 1
- 31) Animals: sparrow, crab
Plants: grass
Non-living: sand, water, boat
- 32) a) K: living things
L: non-living things
b) Curled up when touched.
c) Living things reproduce.
- 33) a) (X) Is a bird because it has a pair of wings and is able to fly
b) (✓) Has hair for its outer covering.
- 34) A: dog C: Frog D: Dolphin
E: Goldfish
- 35) a) Both have eyes/legs/tail.
b) i) P: has feathers, has two legs
Q: has hair, has four legs
- 36) a) Similarity: Both eats plants only
Difference: Animal A has hair for its outer covering while animal C has scales for its outer covering.
b) Animal: B
- 37) a)  b) B

- 38) a) Group P: singly
Group Q: in clusters/bunches
b) i) Q ii) P
- 39) a) B
b) The edge of leaf B is lobed but the edges of leaves A and C are entire.
- 40) A) Duckweed B) Arrowhead C) Cabomba, Elodea
- 41) a) Both groups have seeds
b) A: one seed B: many seeds.
- 42) 1) The living things on the dead log are fungi
2) They are able to reproduce by spores.
- 43) a) glass b) it is transparent.
- 44) a) Rubber gloves
b) Rubber gloves will not absorb water.
- 45) Clay: Flowerpot, ceramic bowl.
Metal: Nail clipper, Frying pan, Baking tray.
Wood: Envelope.
- 46) a) C
b) Material C is waterproof/ does not absorb water.

Tao Nan School

Primary 3 Science Mid-Year Examination 2007

Name : _____ ()

Date : 10 May 2007

Class : Pr 3 ()

Time : 7.45 a.m. to 9.00 a.m.

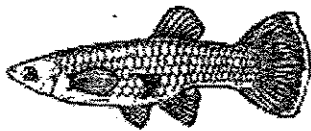
Parent's Signature : _____

Marks: _____ / 100

Section A (30 x 2 marks)

For each question, choose the most suitable answer and shade its correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which of the following animals reproduce by laying eggs? ..



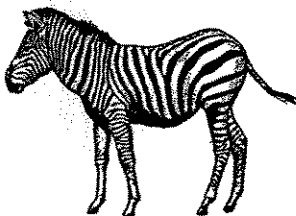
(A)

guppy



(B)

platypus



(C)

zebra



(D)

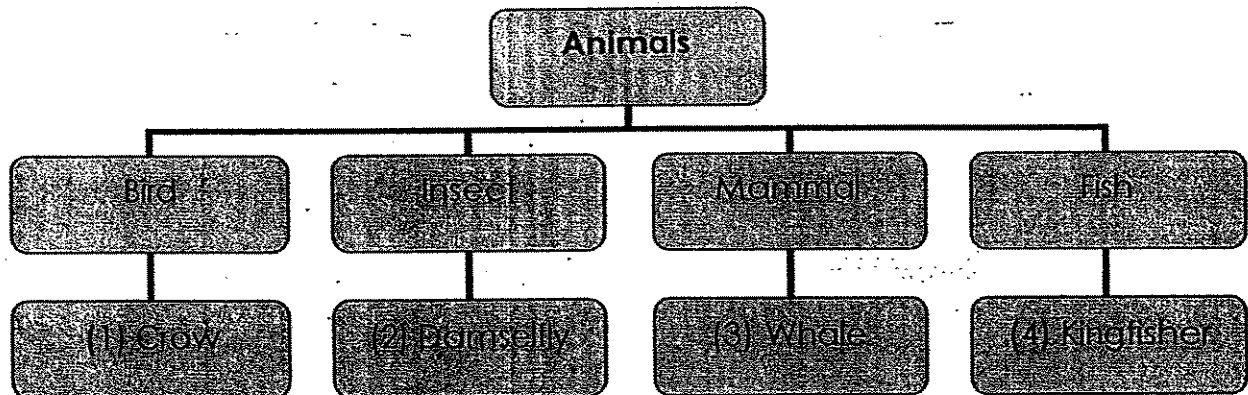
dragonfly

- (1) A and B only
- (2) A and C only
- (3) B and D only
- (4) C and D only

2. Which of the following statements is true of **all** living things?

- (1) Living things have hair.
- (2) Living things produce milk.
- (3) Living things make their own food.
- (4) Living things reproduce their own kind.

3. Which of the following animals is grouped **wrongly**?

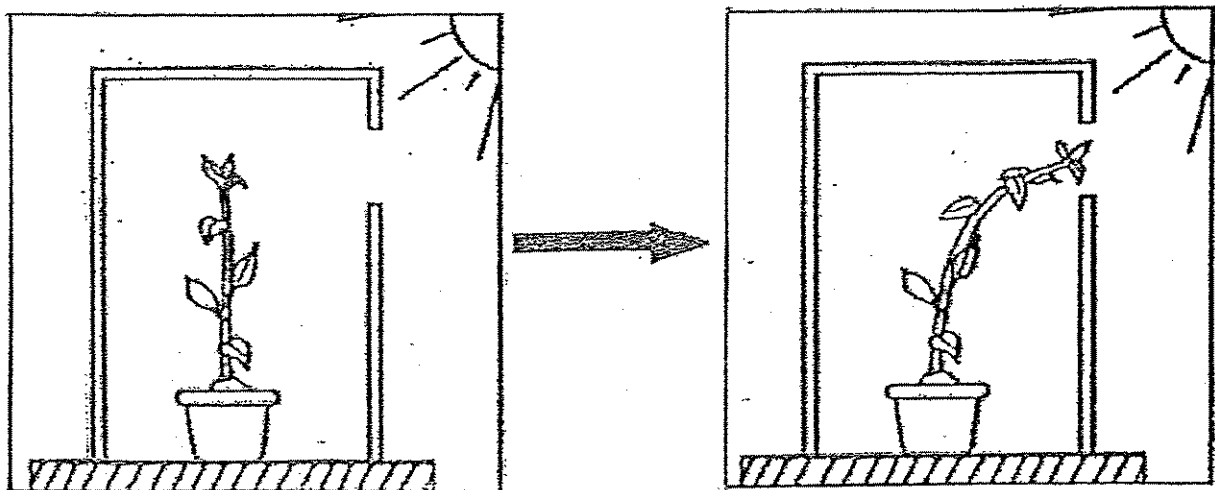


4. Which of the following are likely to live near the pond?

- A: Frog
- B : Dolphin
- C: Dragonfly
- D: Swan

- (1) A , B and C only
- (2) A, B and D only
- (3) A, C and D only
- (4) B, C and D only

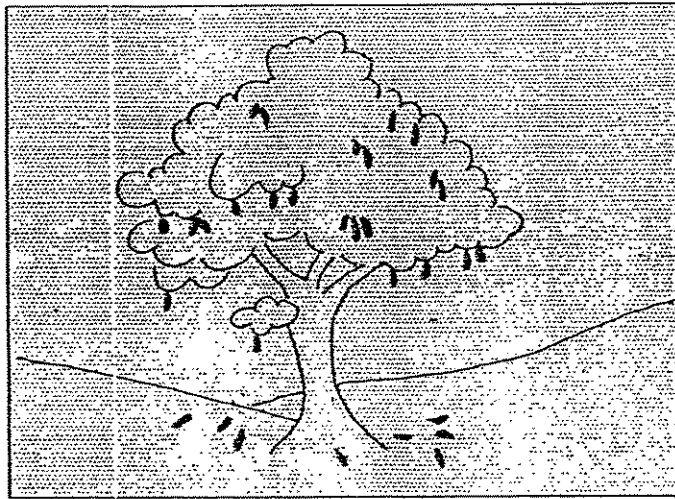
5.



Ali puts a plant in a box next to a window as shown above. After one week, the plant has grown towards the opening in the box. What can Ali say about the plant in this experiment?

- (1) The plant can reproduce.
- (2) The plant needs water and air to grow.
- (3) The plant grows very quickly with very little light.
- (4) The plant can respond to changes in its environment

6. Look at this picture of a mango tree in a school garden.
Read the statements carefully. Which one you can be most sure is true just by looking at the picture.



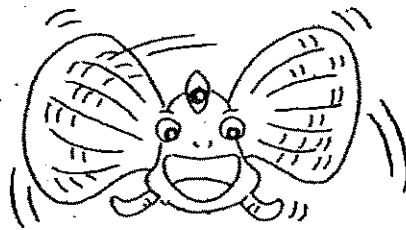
- (1) The mangoes on the tree are ripe.
 - (2) The mangoes on the ground are bad.
 - (3) The wind has knocked some mangoes off the tree.
 - (4) There are mangoes on the ground and on the tree.
7. In which way is an owl similar to a squirrel?

- (1) They eat animals.
- (2) They live on a tree.
- (3) They reproduce by laying eggs.
- (4) They have the same outer body covering.

8. I have hair.
I give birth to young.
I eat both plants and animals.
What am I?

- (1) Hen
- (2) Rat
- (3) Toad
- (4) Deer

9. Study the imaginary animal shown below.



Which movement(s) can possibly be made by this animal?

A : Fly

B : Run

C : Crawl

(1) A only

(2) C only

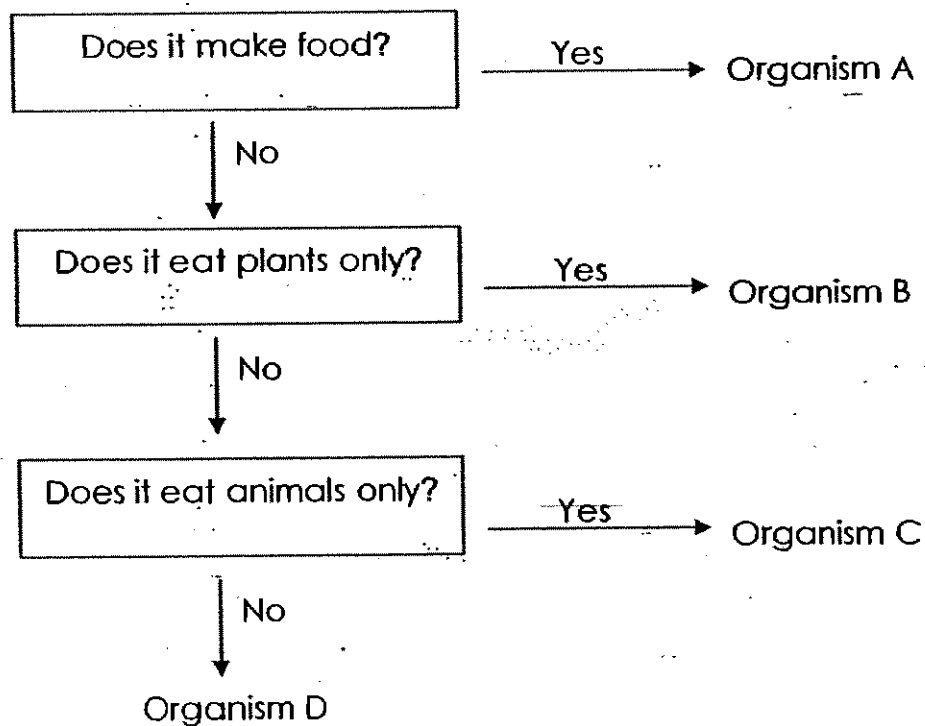
(3) A and B only

(4) B and C only

10. Which of the following statements is **true** about mammals only?

- (1) Mammals have hair.
- (2) Mammals produce milk.
- (3) Mammals are warm blooded.
- (4) Mammals breathe through lungs.

11. Which of the following organisms is a plant eater?



- (1) Organism A
- (2) Organism B
- (3) Organism C
- (4) Organism D

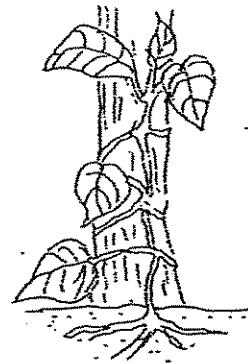
12. Which of the following is **true** about the outer body covering of a fish?

- (1) It helps it to breathe.
- (2) It protects it from injury.
- (3) It helps it to catch food.
- (4) It changes colour to match its surroundings.

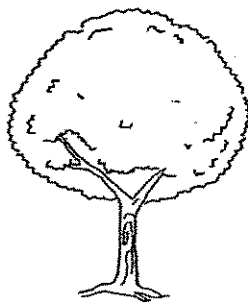
13. Which of the following plants have weak stems?



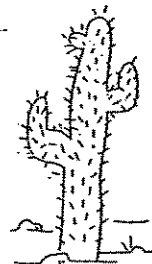
A



B



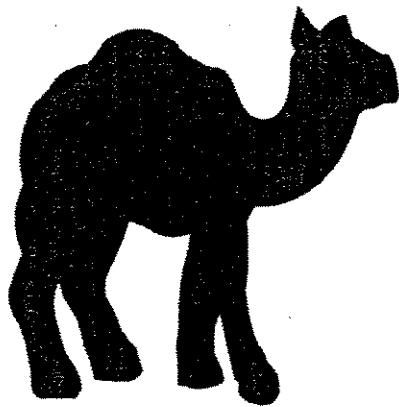
C



D

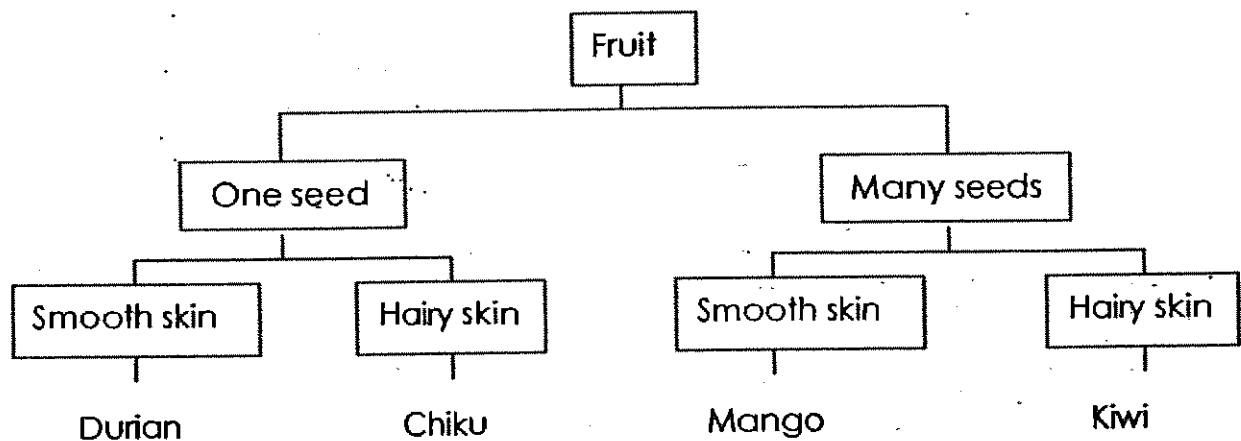
- (1) Plant A and Plant B only
- (2) Plant A and Plant D only
- (3) Plant B and Plant C only
- (4) Plant C and Plant D only

14.



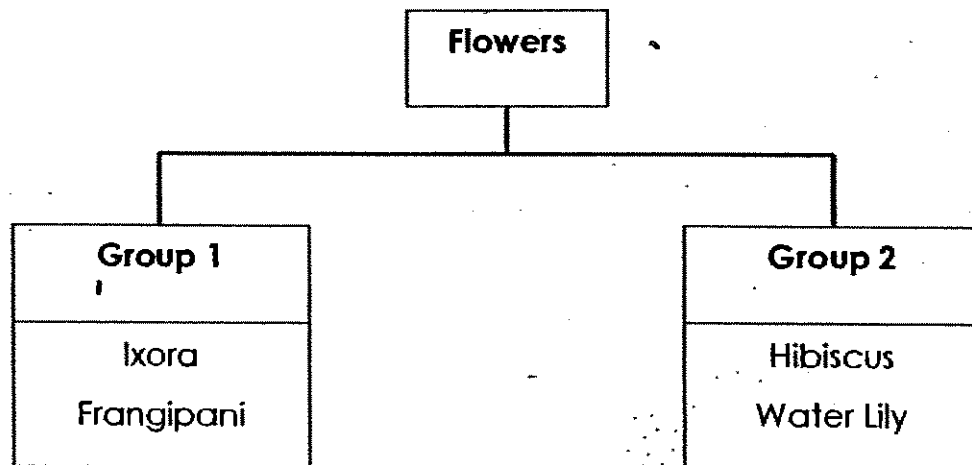
Which of the following animals cast the above shadow?

- (1) A fox
- (2) A camel
- (3) A giraffe
- (4) A leopard

15. Which fruit is grouped **correctly**?

- (1) Durian
- (2) Chiku
- (3) Mango
- (4) Kiwi

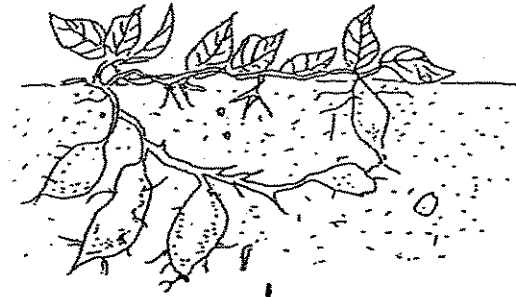
16. Edwin brought some flowers for his Science lesson. He put them into 2 groups.



How are the flowers grouped?

	Group 1	Group 2
(1)	No petals	Many petals
(2)	Dull colours	Bright colours
(3)	Land Plant	Water Plant
(4)	Grow in clusters	Grow singly

17.



sweet potato plant

May Li observed some sweet potato plants.

She concluded that sweet potato plants are _____.

- (1) trees
- (2) ferns
- (3) shrubs
- (4) creepers

18. Which of the following animals below can live both on land and in water?

- (1) Prawn
- (2) Parrot
- (3) Bullfrog
- (4) Mosquito

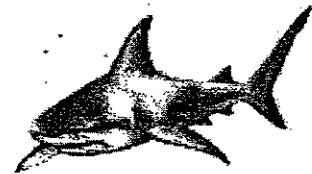
19. Study the 3 animals given below carefully.



Dolphin



Whale



Shark

The shark does not belong to the same group as the other animals shown because the shark _____.

- (1) eats meat
- (2) is a mammal
- (3) breathes through its gills
- (4) is the largest sea animal

20. Look at the classification table below.

Edible	Inedible
Peach	Shorea
Pineapple	Angsana
Tomato	X

What can 'X' be?

- (1) Cassia
- (2) Guava
- (3) Coconut
- (4) Lady's Finger

21. Four pupils were asked to describe micro-organisms.

Who gave the correct description?

- (1) Liyang: They reproduce by spores.
- (2) Kumari: They live on the bodies of animals only.
- (3) Robert: They can cause diseases.
- (4) Aminah: They are tiny non-living things.

22. Felix collected a housefly, a cockroach and a damselfly. He put them in a jar and wrote some observations about them in his notebook.

A : All have feelers.

B : All of them can fly.

C: Their wings are on the thorax.

D: Their legs are on the abdomen.

Which of the following observations that Felix made are **correct**?

- (1) A and B only.
- (2) C and D only.
- (3) A, B and C only.
- (4) B, C and D only.

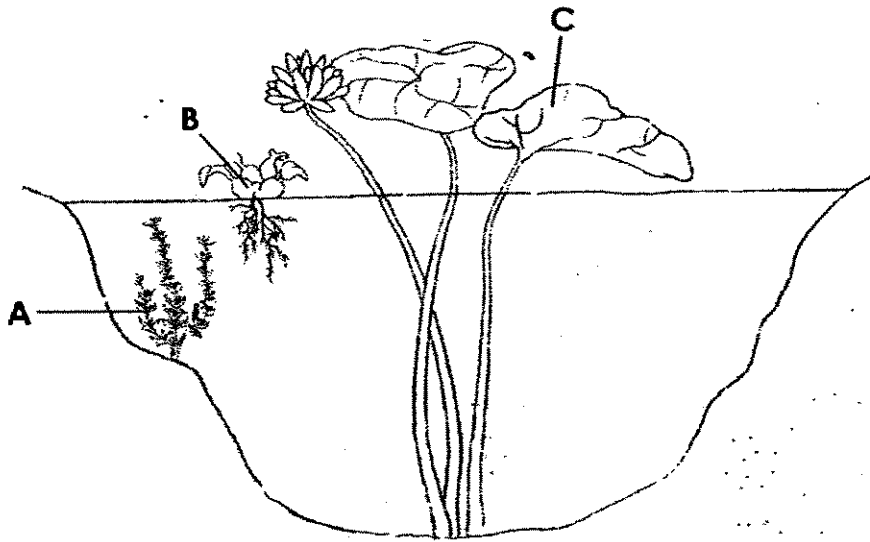
23.

Characteristic X	Characteristic Y
Ixora	Cattail
Mimosa	Water hyacinth
Bougainvillea	Lotus

The plants above are put into 2 groups. How are they grouped?

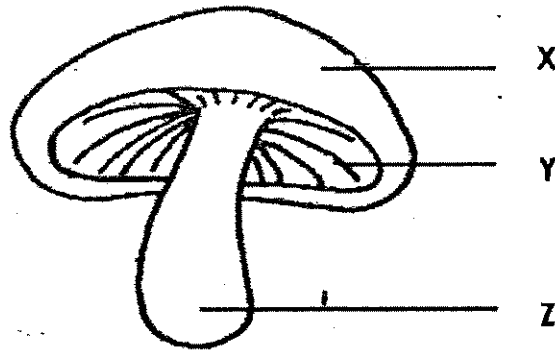
	Characteristic X	Characteristic Y
(1)	Live on land	Live in water
(2)	Flowering plants	Non-flowering plants
(3)	Reproduce by seeds	Reproduce by spores
(4)	Green plants	Non-green plants

24. Which of the following is grouped correctly?



Water Plants		
Fully submerged	Partially submerged	Floating
(1) A	B	C
(2) A	C	B
(3) B	A	C
(4) B	C	A

25. What the parts marked X, Y and Z as shown in the picture below?



	X	Y	Z
(1)	Gills	Cap	Stalk
(2)	Cap	Stalk	Gills
(3)	Cap	Gills	Stalk
(4)	Stalk	Cap	Gills

26. Which of the following characteristics best describes a rock?

- (1) hard
- (2) weak
- (3) fragile
- (4) flexible

27. Which of the following objects is made from a man-made material?

- (1) Gold chain
- (2) Nylon string
- (3) Cotton shirt
- (4) Wooden chair

28.

X		Y	
Flexible	Stiff	Flexible	Stiff
Eraser	Golf ball	Food wrap	Test tube

The table above shows how four objects are grouped.
What characteristics do X and Y represent?

	X	Y
(1)	Soft	Hard
(2)	Sink	Float
(3)	Metal	Non-metal
(4)	Opaque	Transparent

29. Which of the following objects is definitely made of plastic?

- (1) Cup
- (2) Ruler
- (3) Trash bag
- (4) Fifty – cents coin

30. Which material is most suitable for making a water bottle?

Materials			
Heavy		Light	
Waterproof	Non-waterproof	Waterproof	Non-waterproof
Material A	Material B	Material C	Material D

- (1) Material A.
- (2) Material B.
- (3) Material C.
- (4) Material D.

Tao Nan School

Name : _____ ()

Marks: _____ / 40

Class : Pr 3 (I)

Section B (40 marks)**Write your answers in the spaces provided.**

31. The emu is a bird although it cannot fly.

(a) **Explain** why the emu is a bird. (1 mark)

(b) Identify another characteristic of birds. (1 mark)

32. Look carefully at the classification table below.

Animals	
Have Scales	Have Hair
Snake	Orang utan
Spiny anteater	Meerkat

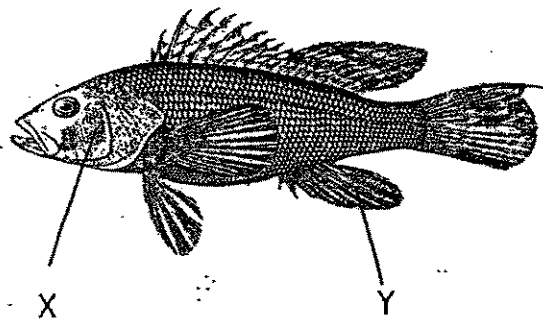
(a) Which of the above animals has been grouped wrongly? (1 mark)

(b) Explain your reason in (a). (1 mark)

33. Write 'T' for 'True' and 'F' for 'False' for each of the following statements in the boxes provided. (3 marks)

(a) All birds have an outer body covering of feathers.	
(b) Leather is obtained from plants.	
(c) Frogs can live both on land and in water.	

34. The picture below shows a sea bass.



(a) Identify the parts labelled X and Y. (2 marks)

(i) X: _____

(ii) Y: _____

(b) State the functions of the labelled parts in (a). (2 marks)

(i) Part X: _____

(ii) Part Y: _____

35. Tom left a slice of bread on the dining table. After a few days, he noticed some 'black spots' on the bread.

(a) What are these 'black spots'? (1 mark)

(b) What will happen to the bread if Tom continues to leave the bread on the dining table? (1 mark)

(c) Explain your answer in (b). (1 mark)

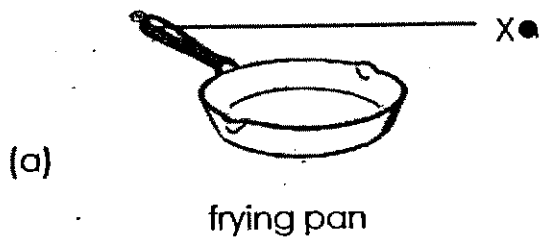
36. Fill in the blanks below with the most suitable words. (3 marks)

There are many different types of plants around us. All plants can

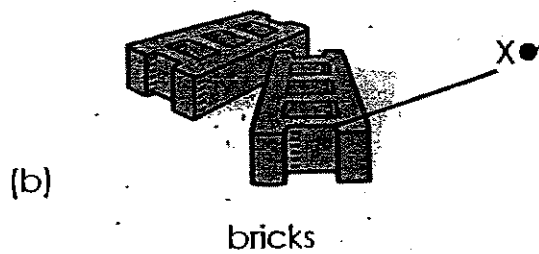
make their own _____ using energy from the

_____ because plants have green pigments called

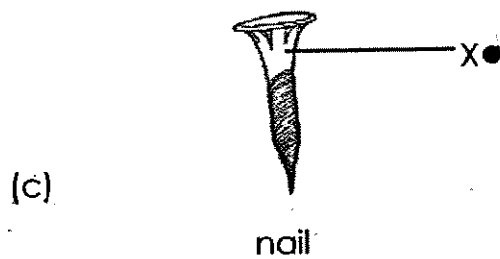
37. Match the parts marked 'X' on all the objects to the materials used to make them. (3 marks)



● Clay



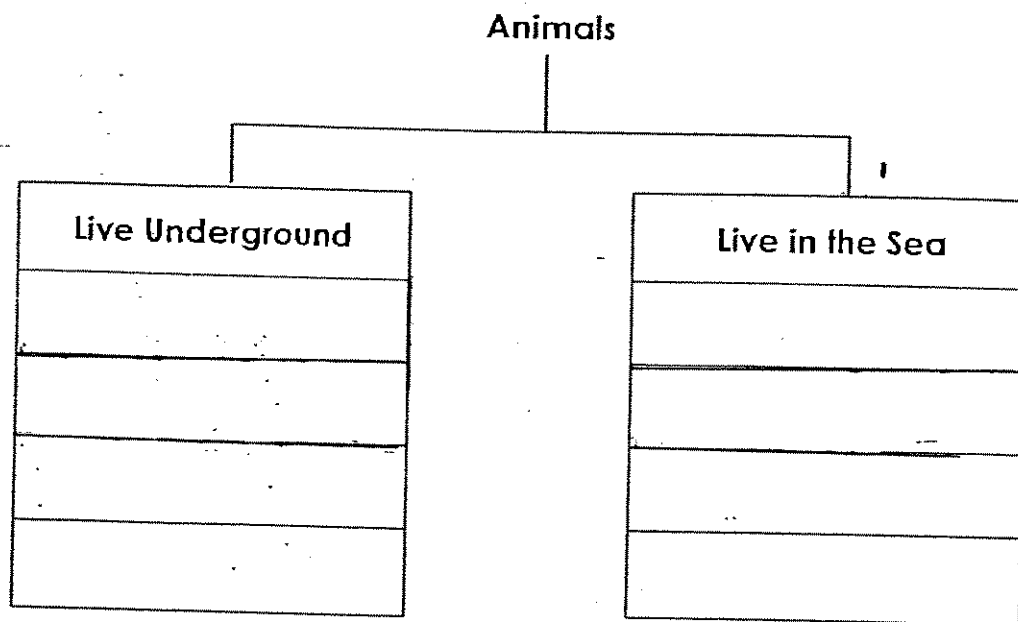
● Metal



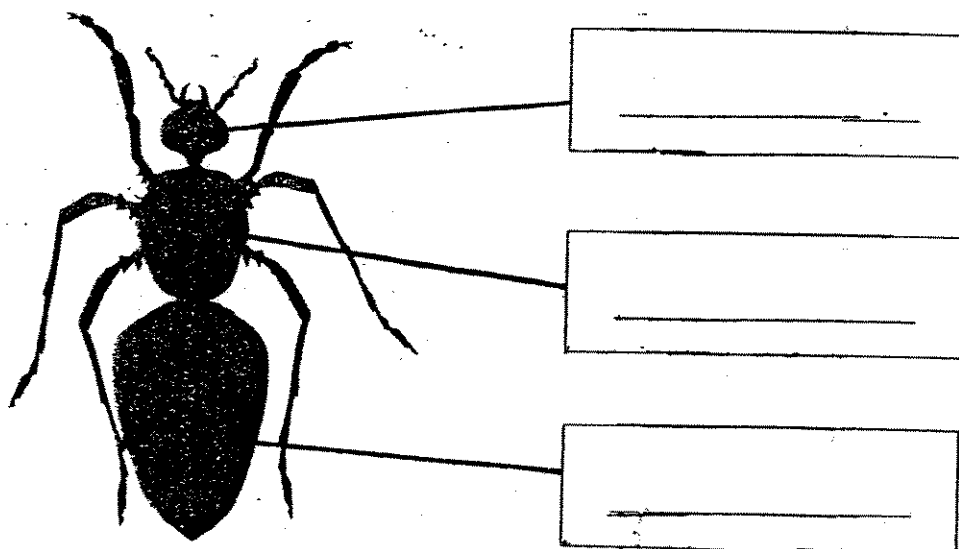
● Plastic

38. Group the animals under the correct headings. (2 marks)

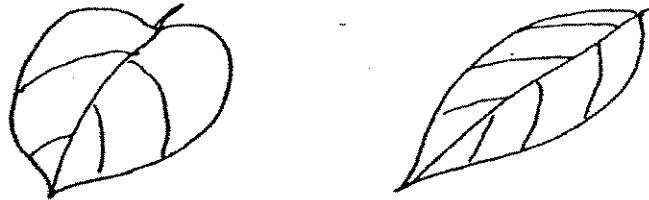
Earthworm	Clown fish	Eel	Mole
----------------------	-----------------------	----------------	-----------------



39. Label the main body parts of the insect below. (3 marks)



40. Compare the two leaves below.



Write down one similarity and one difference between the two leaves based on your observation. (2 marks)

Similarity: _____

Difference: _____

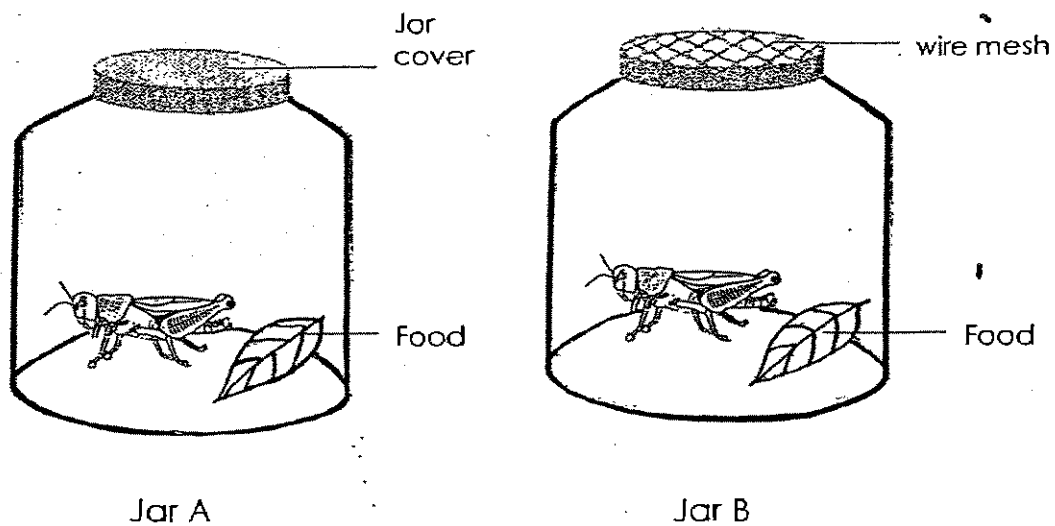
41. Observe the diagram below carefully.



(a) Where does this animal live? Which part of its body enables it to swim? (1 mark)

(b) Which group of animals does the animal belong to? (1 mark)

42. Andy placed two grasshoppers in two similar jars as shown below.



(a) The grasshopper in Jar _____ will live longer. (1 mark)

(b) What can Andy conclude from the experiment? (1 mark)

43. Ben wrote a report about bats after his visit to the zoo.



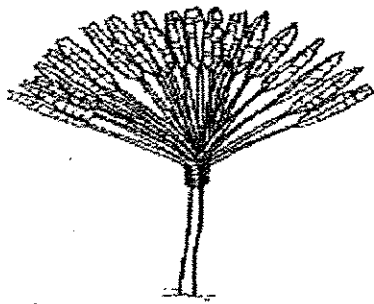
Bats have wings and fly like birds. Some bats eat fruits. Their bodies are covered with feathers. They reproduce by giving birth to their young. They are most active at night and sleep during the day hanging upside-down.

His teacher told him that he had one of the sentences wrong.

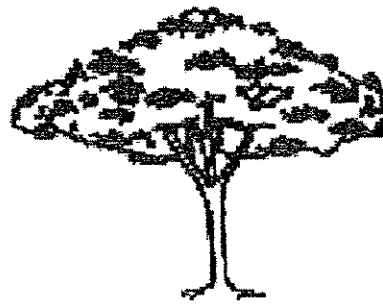
(a) Which sentence is wrong? (1 mark)

(b) How should it be corrected? (1 mark)

44.



Traveller's Palm



Rain Tree

Aini was walking in the park on a hot Sunday afternoon. She decided to seek shelter from the hot sun.

(a) Which tree would provide her with more shade? (1 mark)

(b) Explain your reason in (a). (1 mark)

45. Study the table below.
Give suitable headings for Group X and Group Y.

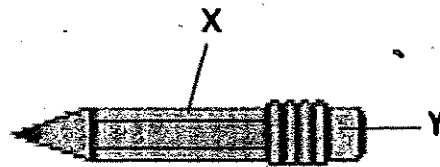
Group X	Group Y
Moss Ladder Fern Maidenhair Fern	Jasmine Papaya Tree Mango Tree

(a) Group X : _____ (1 mark)

(b) Group Y : _____ (1 mark)

(c) Give one more example under Group X. (1 mark)

46.

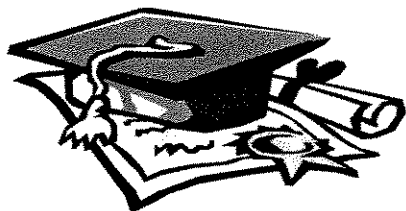


Pencil

Parvin sharpens his pencil with a sharpener. Then he uses it to write in his exercise book. When he makes a mistake, he uses the other end of the pencil to erase the mistake.

(a) What material is the part marked 'X' made of? (1 mark)

(b) Where does the material used to make the part marked 'Y' come from? (1 mark)



ANSWER SHEET

TAO NAN PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3
 2. 4
 3. 4
 4. 3
 5. 4
 6. 4
 7. 2
 8. 2
 9. 3
 10. 2
 11. 2
 12. 2
 13. 1
 14. 2
 15. 4
 16. 4
 17. 4
 18. 3
 19. 3
 20. 1
 21. 3
 22. 3
 23. 1
 24. 2
 25. 3
 26. 1
 27. 2
 28. 4
 29. 3
 30. 3
- 31) a) The emu has a beak, two wings, two legs and feathers.
b) They are warm blooded.
- 32) a) Spiny anteater.
b) The spiny anteater does not have scales on its body, as it is a mammal.
- 33) a) T b) F c) T
- 34) a) i) Gill cover ii) fin
b) i) It is to protect the gills of the fish.
ii) It is to help the fish to swim.
- 35) a) Spore cases.
b) The black spots will spread will spread around the bread.
c) The black spots are reproducing.
- 36) food, sun, chlorophyll
- 37) a)
b)
c)

38) Live Underground: Earth worm, Mole
Live in the Sea : Clown fish, Eel

39) i) Head ii) Thorax iii) Abdomen

40) Similarity: They have entire edges.
Difference: One leaf has a heart shape while the other has a oval shape.

41) a) This animal lives in the sea. The fins enables it to swim.
b) Fish.

42) a) B
b) A living thing needs air.

43) a) The sentence is "Their bodies are covered with feathers."
b) It should be corrected to , "Their bodies are covered with hair."

44) a) The rain tree would provide her with more shade.
b) The rain tree's top is bigger than the Traveller's palm's top.

45) a) Non-flowering plants.
b) flowering plants.
c) Stag's horn fern.

46) a) Wood.
b) It come from the rubber tree.

Name : _____ ()

Class : Primary _____

CHIJ ST NICHOLAS GIRLS' SCHOOL



德 純 义 坚

Primary 3

First Semestral Assessment – 2007

SCIENCE

BOOKLET A

9th May 2007

Total Time for Booklets A and B: 1 hour 30 minutes

**30 questions
60 marks**

**Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.**

Section A : (30 x 2 marks)

For each question from 1 to 30, 4 options are given. One of them is the correct answer. Write the correct answer (1, 2, 3 or 4) in the answer sheet provided.

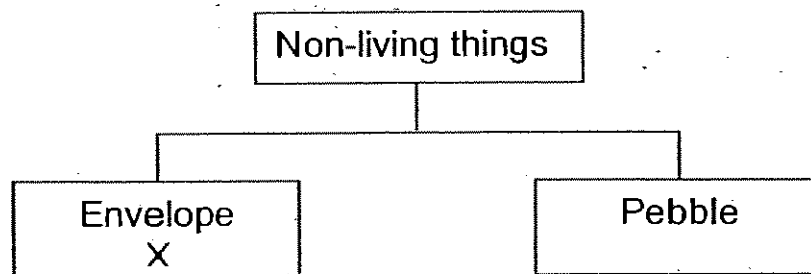
1. The table below shows the characteristics of 4 things, W, X, Y and Z. A tick (✓) in the box indicates the thing has that characteristic.

Thing	Can respond to changes	Can produce their own food	Can reproduce	Can move freely from place to place
W	✓			
X	✓		✓	✓
Y	✓	✓	✓	
Z	✓		✓	

Which one of the following is correctly classified as plants, animals and fungi?

	Plants	Animals	Fungi
(1)	W	Y	X
(2)	Z	W	Y
(3)	Y	X	Z
(4)	Y	W	X

2. Study the classification diagram below.



Which one of the following can X be?

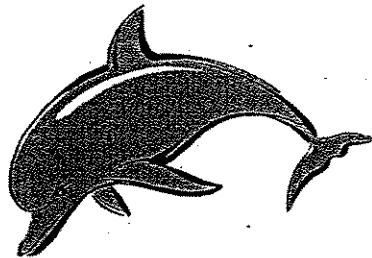
- (1) Marble
- (2) Paper clip
- (3) Cotton shirt
- (4) Plastic plate

3. Heather wanted to group some live animals into 2 groups, A and B. Which one of the following headings would be most suitable?

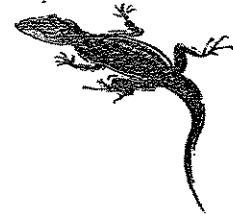
	Group A	Group B
(1)	Living	Non-living
(2)	Live on land	Live in water
(3)	Can make food	Cannot make food
(4)	Can move by itself	Cannot move by itself

4. Which one of the following animals does not reproduce in the same way as the rest?

(1)



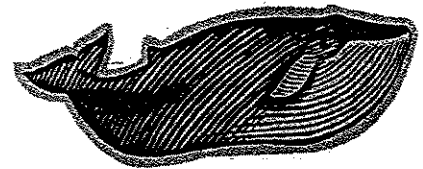
(2)



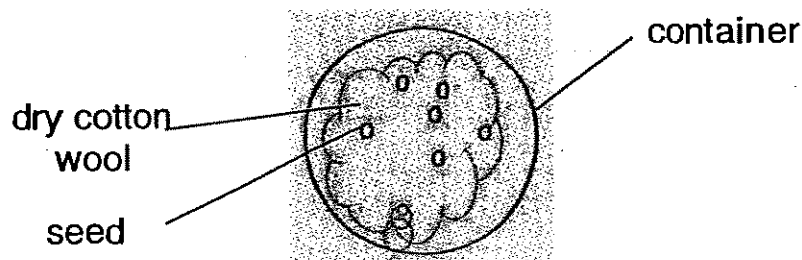
(3)



(4)



5. Jarius grew some seeds on dry cotton wool in a container as shown below.



The container was placed under the bed for a few days but ^{Jarius} Paul observed that the seeds did not grow into seedlings.

Which one of the following conditions is not present in order for the seeds to germinate?

- (1) air
- (2) water
- (3) warmth
- (4) sunlight

6. 4 pupils were shown a feather as follows:



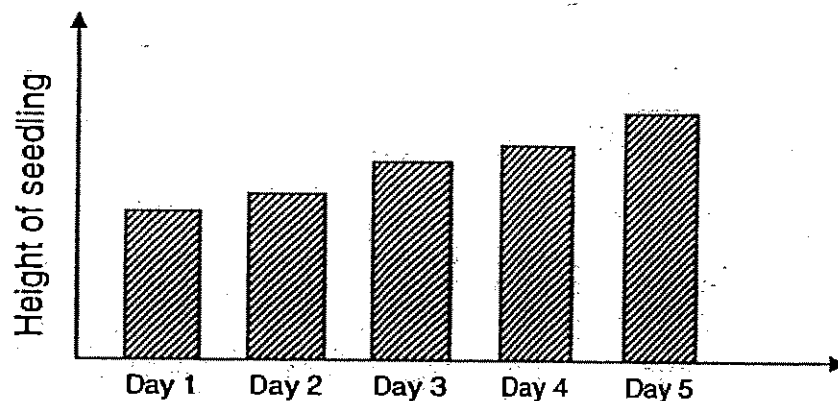
They were asked if the feather is a non-living thing which was once alive or never alive and they made the following statements:

- Anne : It was never alive because it is a non-living thing.
Mary : It was once alive because it is found on live birds.
David : It was once alive because it used to move on its own.
Matthew : It was never alive because it could not respond to changes.

Who has made the correct statement about the feather?

- (1) Anne
- (2) Mary
- (3) David
- (4) Matthew

7. The bar graph shows the height of a seedling over 5 days.



What characteristic of living things does the bar graph show?

- (1) Living things will not die at all.
- (2) Living things take time to grow.
- (3) Living things reproduce by seeds.
- (4) Living things need sunlight to stay alive.

8. Tom compares the hardness of 4 table tops P, Q, R and S by scratching them with a metal rod for a few times. His observations are recorded in the table below.

Table Top	Number of scratch marks made
P	1
Q	3
R	0
S	2

Based on the table above, which one of the table tops is the hardest?

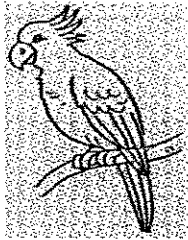
- (1) P
- (2) Q
- (3) R
- (4) S

9. What is the function of the outer covering of a peacock?

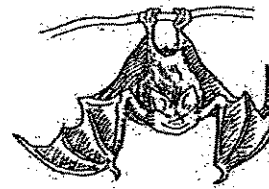
- A: It protects the skin.
- B: It helps the bird to fly.
- C: It keeps the bird warm.
- D: It helps to attract its partners.

- (1) B only
- (2) C and D only
- (3) A, B and C only
- (4) A, B, C and D

10. The diagrams below show a parrot and a bat. Natalie notices that the animals are similar in some way with each other.



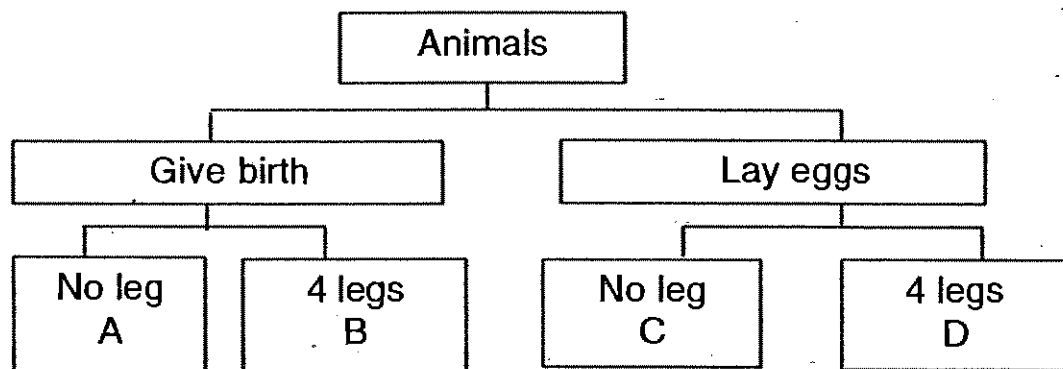
parrot



bat

Which one of the following statements is true?

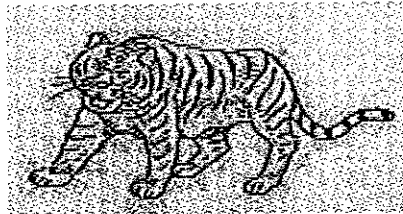
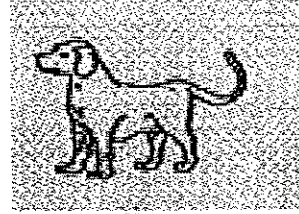
- (1) Both can fly.
 - (2) Both lay eggs.
 - (3) Both are birds.
 - (4) Both are covered with feathers.
11. A, B, C and D are animals that are classified according to the way they reproduce and then further classified according to the number of legs they have.



Which one of the following shows the correct classification for animals A, B, C and D?

	A	B	C	D
(1)	guppy	elephant	snake	crocodile
(2)	snake	cow	dolphin	toad
(3)	shark	lizard	platypus	crocodile
(4)	dolphin	monkey	guppy	frog

12. The pictures below show two animals, **A** and **B**. Mary made some observations and concluded that both animals are mammals.

**A****B**

Which one of the following statements describes the reason for Mary's conclusion?

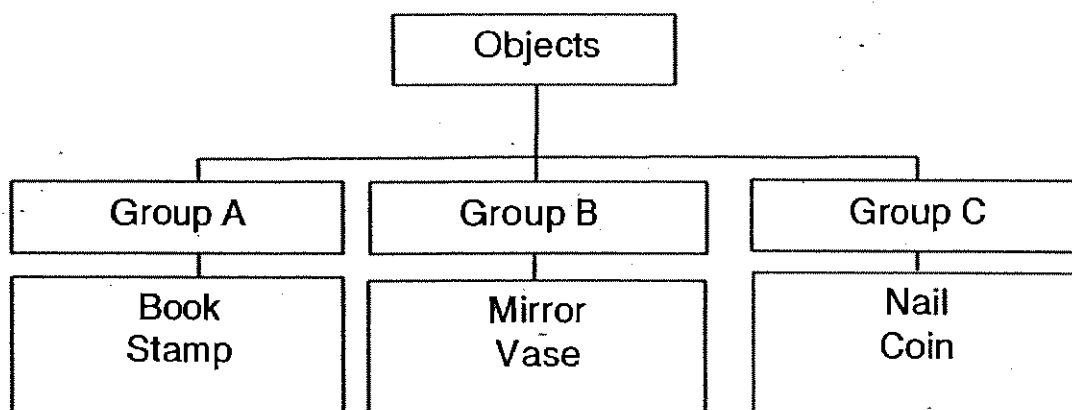
- (1) Both eat meat.
 - (2) Both have a long tail.
 - (3) Both give birth to live young.
 - (4) Both need air, food and water.
13. Rick did a study on two animals, **X** and **Y**. He drew up a checklist and placed a tick (✓) in the box when he made the observation. At the end of his study, the completed checklist is as follows:

Observation	Animal X	Animal Y
It has wings.	✓	✓
It has six legs.		✓
The young looks like its parent.	✓	✓

Which of the following animals could **Animal X** and **Animal Y** be?

	Animal X	Animal Y
(1)	cockroach	bat
(2)	parrot	cockroach
(3)	bat	butterfly
(4)	butterfly	ant

14. The classification diagram below shows some objects that are grouped according to the materials they are made of.

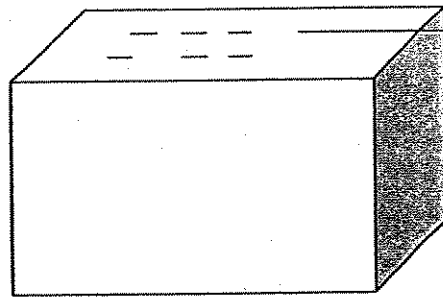


Which one of the following is the correct heading for each group?

	Group A	Group B	Group C
(1)	fabric	plastic	metal
(2)	plastic	porcelain	rock
(3)	wood	plastic	porcelain
(4)	paper	glass	metal

15. Which one of the following pairs of objects is made from material that does not absorb water at all?
- (1) Curtain and mirror
 - (2) Balloon and sponge
 - (3) Marble and envelope
 - (4) Hairpin and window pane

16. The box below contains an object inside.

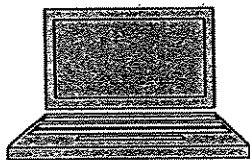


Fragile.
This side up.
Handle with care.

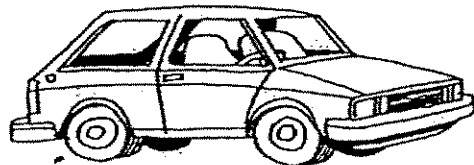
From the label seen on the top side of the box, what could be the object inside the box?

- (1) Plastic stirrer
- (2) Ceramic bowl
- (3) Aluminium foil
- (4) Wooden frame

17. Look at the pictures below.



Laptop



Car

In what way are the objects alike?

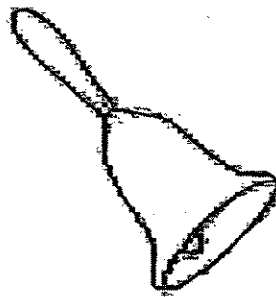
- (1) Both are of the same size.
- (2) Both are of the same weight.
- (3) Both are made of more than one material.
- (4) Both are made from materials which were once alive.

18. Swimming goggles are usually made of clear plastic. Which of the following are the correct reasons for choosing clear plastic?

A: It is light.
B: It is flexible.
C: It is waterproof.
D: It is transparent.

- (1) A and D only
(2) B and C only
(3) A, C and D only
(4) A, B, C and D

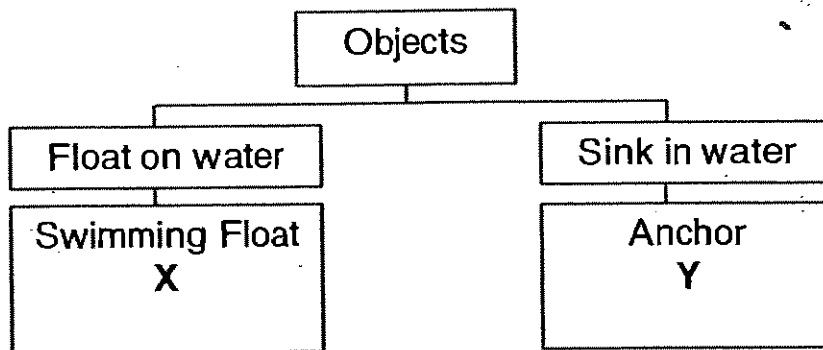
19. The bell shown below produces a loud and sharp sound when it is shaken.



Which one of the following materials is suitable for making the bell shown above?

- (1) Metal
(2) Wood
(3) Fabric
(4) Rubber

20. Study the classification table below.



What can objects X and Y be?

	X	Y
(1)	Notebook	Cork
(2)	Eraser	Pencil
(3)	Hammer	Pinafore
(4)	Styrofoam board	Metal ladle

21. Styrofoam boxes are commonly used to pack hot food so that the food inside will not turn _____ very quickly.

- (1) oily
- (2) cold
- (3) stale
- (4) warm

22. Which one of the following animals does not have the same body covering as the rest?

- (1) Snake
- (2) Lizard
- (3) Goldfish
- (4) Earthworm

23. Gareth wrote some notes in his notebook while revising on the topic of micro-organisms.

- A: They can be seen using a magnifying glass.
- B: They are all harmful to people and cause diseases.
- C: They are tiny living things which can be found in our bodies.
- D: Some examples of micro-organisms are bacteria and amoeba.

Which of the above note(s) made by Gareth is/are correct?

- (1) D only
- (2) B and C only
- (3) C and D only
- (4) A, B, C and D

24. Kathy did an experiment to find out the properties of an object. She hit it with her hands and it became flat. She dropped but it did not break. What could be the object she was testing?

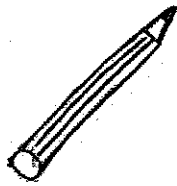
- (1) Fish tank
- (2) Plasticine
- (3) Basketball
- (4) Rubber band

25. Why are cooking pots usually made of metal like aluminium?

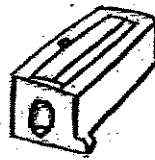


- (1) It is shiny.
- (2) It is heavy.
- (3) It is waterproof.
- (4) It gets hot easily.

26. The pictures below show three objects, A , B and C.



A



B



C

Which of the above objects is made from material which was once alive?

- (1) A only
- (2) B only
- (3) C only
- (4) None of the above

27. The box below shows the description of organism P.

pond
I live in the ~~water~~ and breathe with my lungs.
I lay many eggs at one time.

What can organism P be?

- (1) Seal
- (2) Frog
- (3) Swordtail
- (4) Mosquito

28. Which of the following statements is true?

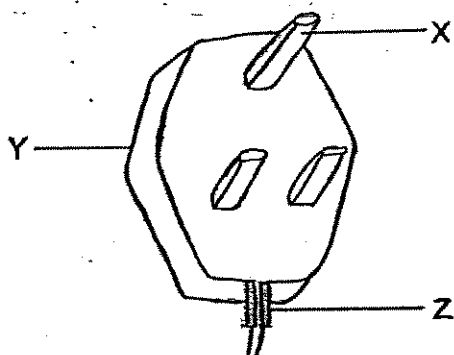
- (1) Non-living things respond to changes.
- (2) All living things can make their own food.
- (3) Living things need air, food, water to stay alive.
- (4) Living things can be classified into two groups only.

29. Fish tanks are usually made of glass because it _____.

- A: is light
- B: is waterproof
- C: is transparent
- D: does not break easily

- (1) A and D only
- (2) B and C only
- (3) B, C and D only
- (4) A, B, C and D

30. The diagram below shows a plug.



Which one of the following materials are X, Y and Z made of?

	X	Y	Z
(1)	plastic	wood	rubber
(2)	wood	plastic	metal
(3)	ceramic	metal	wood
(4)	metal	plastic	rubber

*****End of Section A*****

Name : _____ ()

Class : Primary _____

CHIJ ST NICHOLAS GIRLS' SCHOOL**Primary 3****First Semestral Assessment – 2007****SCIENCE****BOOKLET B****9th May 2007****Total Time for Booklets A and B: 1 hour 30 minutes****16 questions
40 marks**

Booklet A	60
Booklet B	40
Total	100

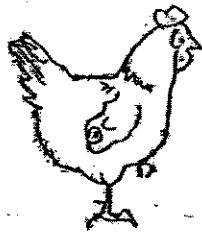
**Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.**

Parent's Signature/Date

Section B : (40 marks)

Answer all questions.

31. Look at the pictures shown below.



hen



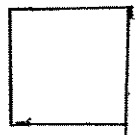
ostrich

- (a) Using the physical characteristics that you can observe, state a similarity and a difference between the hen and the ostrich. (2 marks)

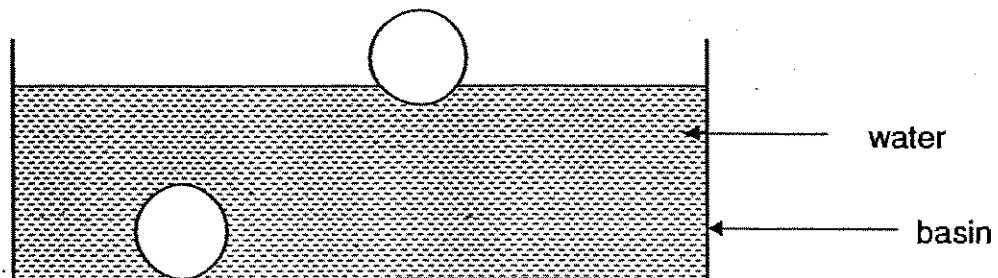
(i) Similarity :

(ii) Difference :

- (b) Which group of animals do the hen and the ostrich belong to? (1 mark)

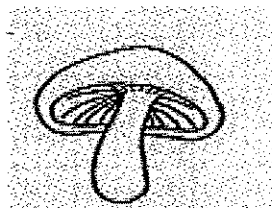


32. Tom set up an experiment as shown in the diagram below. Two similar-sized balls, one made of styrofoam while the other made of iron, were pushed into the water and released after a short while.

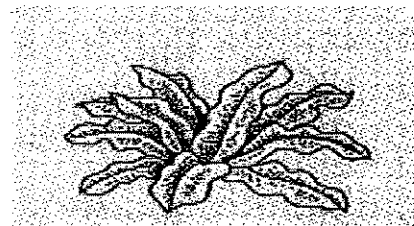


- (a) On the diagram above, state the correct position of the balls by writing 'S' for styrofoam ball or 'I' for iron ball inside each of the circles. (1 mark)
- (b) What was Tom trying to find out? (1 mark)
- _____

33. The mushroom and the fern shown below are living things that live on land.



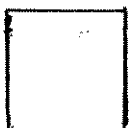
mushroom



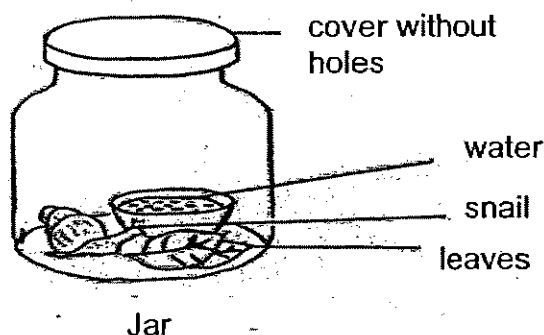
fern

State two ways in which they are different.

- (a) _____
- (b) _____



34. Janet put a snail, a dish of water and some leaves inside a jar sealed with a cover made of paper.

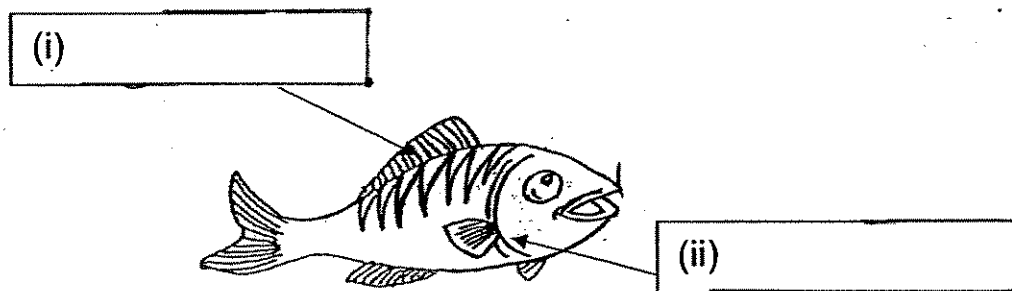


- (a) Give a reason why the snail will not be able to survive after a few days. (1 mark)

- (b) Without removing the cover, what can Janet do to ensure that the snail will survive longer in the jar? (1 mark)

35. Study the diagram of the fish as shown below.

- (a) Label the parts (i) and (ii) of the fish. (1 mark)

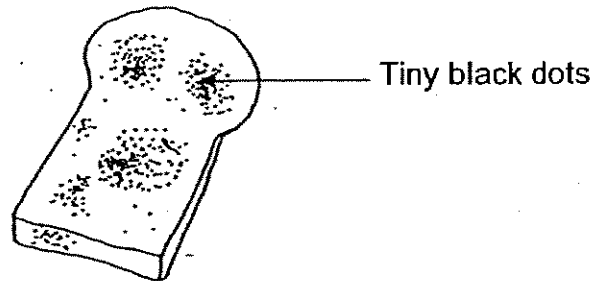


- (b) State the function of parts (i) and (ii) of the fish. (2 marks)

Part (i) : _____

Part (ii) : _____

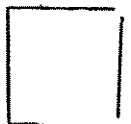
36. A fresh piece of bread was left in a plastic bag. After a few days, patches of thread-like things started to grow on the bread. Later, tiny black dots were formed.



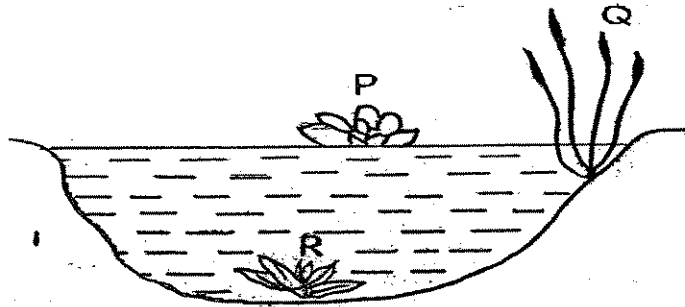
- (a) What were the thread-like things which grew on the bread? (1 mark)

- (b) What did the tiny black dots contain? (1 mark)

- (c) What would happen if the fresh piece of bread had been toasted instead? Explain your answer clearly. (1 mark)



37. Three different types of plants P, Q and R are found growing in a pond.

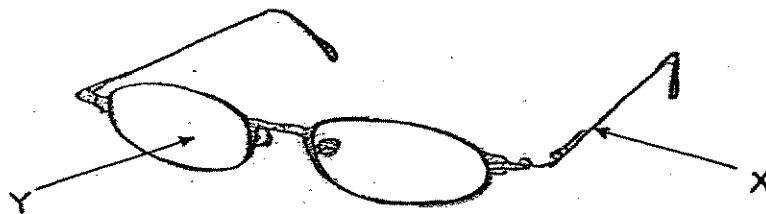


List one similarity and one difference among the plants P, Q and R. (2 marks)

(i) Similarity:

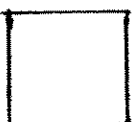
(ii) Difference:

38. The diagram below shows a pair of spectacles.



(a) Name two possible materials which X can be made of. (1 mark)

(b) What can material Y be made of? Give a reason for your answer. (1 mark)



39. A triplets recorded their weights at birth and again when they are 8 years old as shown in the table below.

Names	Weight (kg)	
	At birth	At 8 years old
Paul	4	17
Andrew	3	20
Melvin	4	19

- (a) Which boy has gained the most weight over the 8 years?
How much weight has he gained? (1 mark)
-

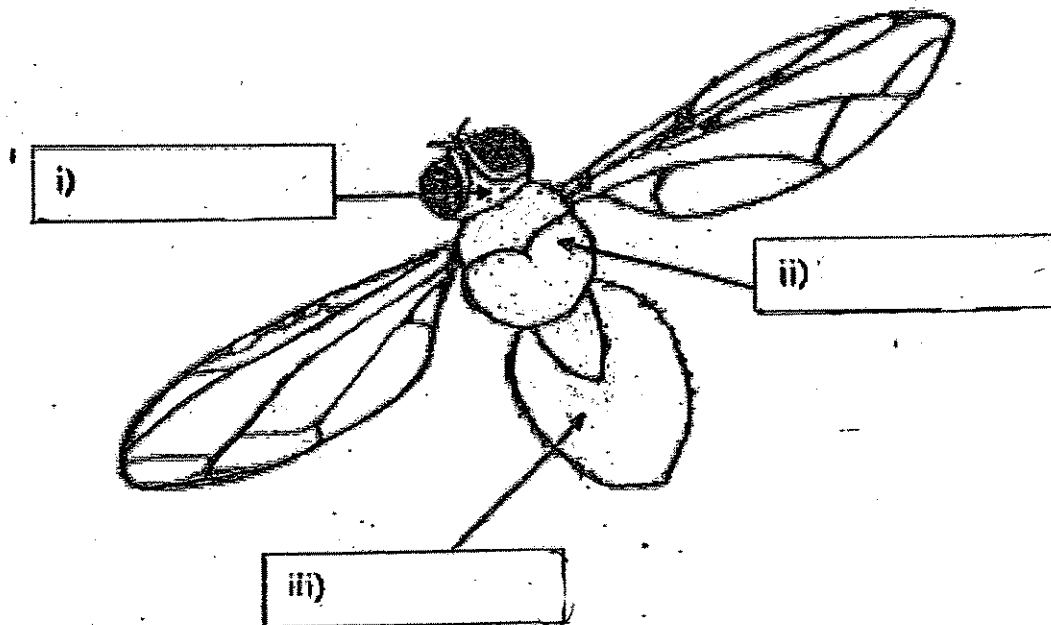
- (b) Read the statements given in the table below. Tick (✓) the correct answer to each statement. (2 marks)

	Statement	True	False	Impossible to tell
i)	Paul and Melvin weighed the same when they were born.			
ii)	Andrew is the youngest son.			
iii)	Melvin is heavier than Andrew when they are 8 years old.			
iv)	Paul dislikes meat since he is not as heavy as his brothers.			



40. The diagram below shows the three main parts of an insect.

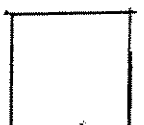
- (a) Label the three body parts of the insect in the boxes above.
(1½ marks)



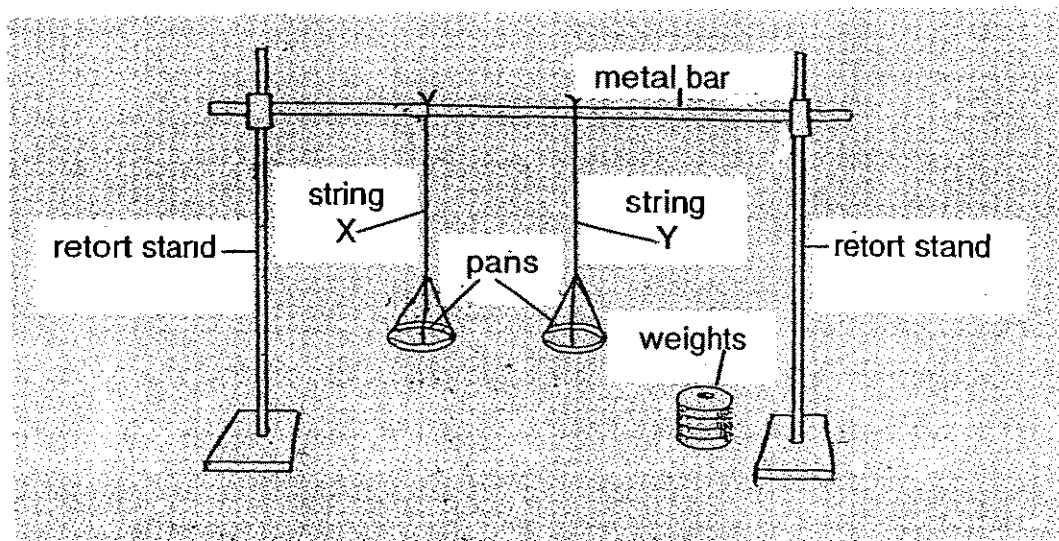
- (b) The diagram below shows the top view of the body of an ant.



Draw in the six legs for the ant in the diagram above. (1 mark)



41. Samantha set up an experiment to test the strength of two strings, X and Y as shown below. The two strings were of the same thickness.



Samantha added weights to both of them until they broke. She recorded the number of weights required before the strings broke in the table below.

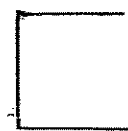
String	X	Y
Number of weights required before the string broke	6	12

- (a) If the strings were made of cotton and nylon, identify the material that each string is made of. (1 mark)

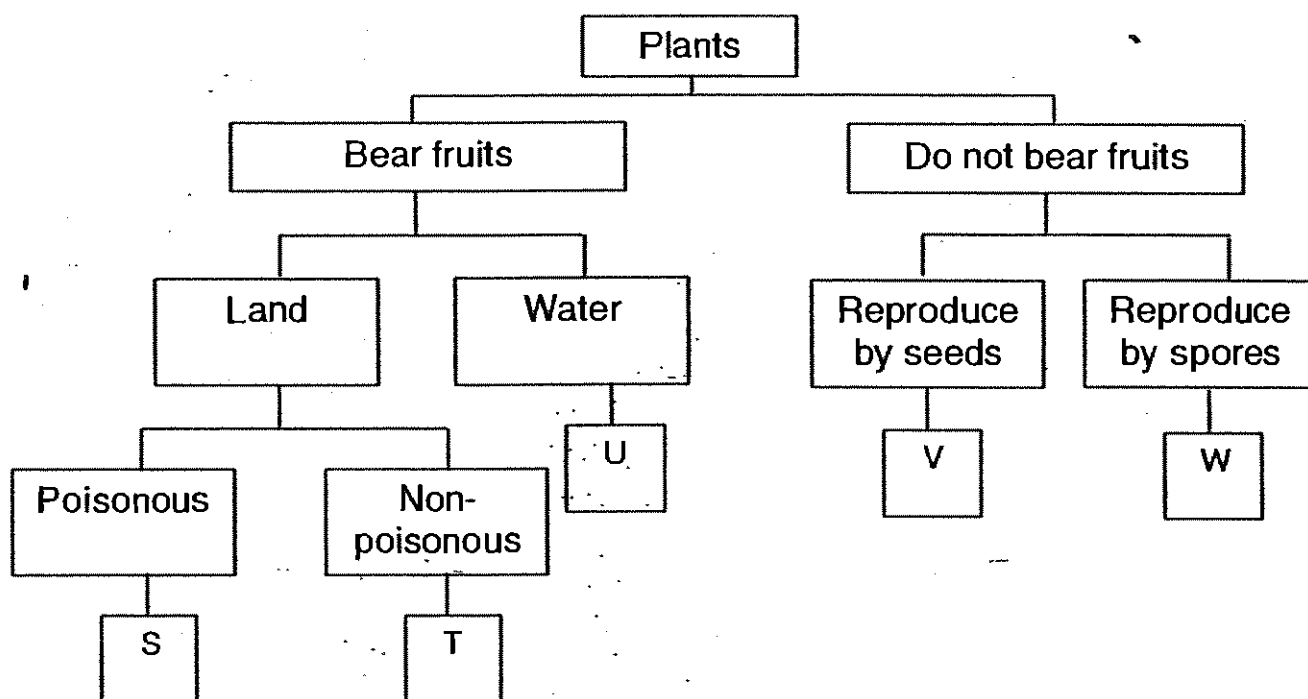
(i) String X : _____

(ii) String Y : _____

- (b) Which string is stronger? Explain your answer clearly. (1 mark)



42. Study the classification diagram given below.



(a) State the characteristics of plant T. (1 mark)

(b) State the difference between plant S and U. (1 mark)

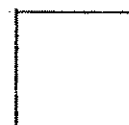
(c) Based on the classification table above, where would you place the following plants? Write the correct answer (S, T, U, V and W) in the blanks provided below. (2 marks)

(i) Hibiscus : _____

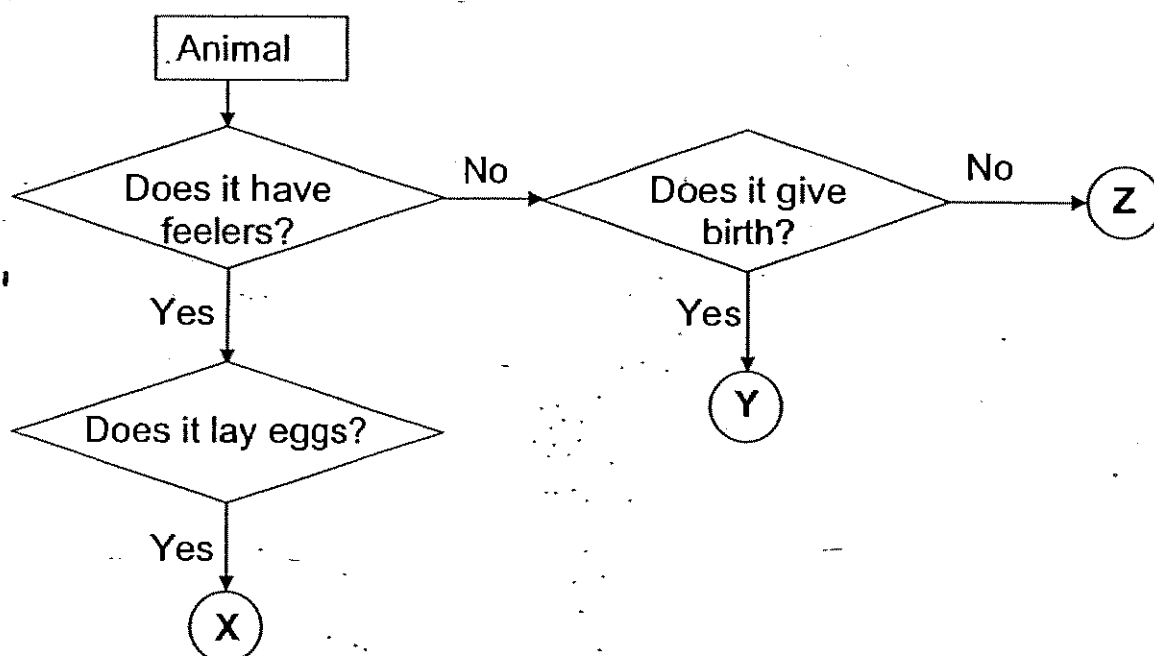
(ii) Lotus : _____

(iii) Bird's nest fern : _____

(iv) Allamanda : _____



43. Study the flowchart below.



(a) Which of the following best represents the letters X, Y or Z in the flowchart? (1 mark)

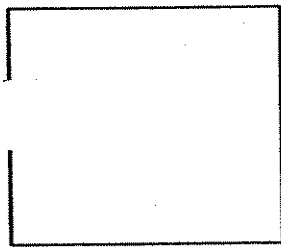
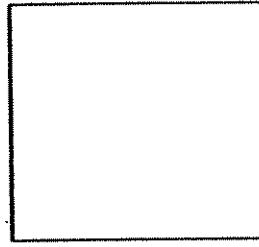
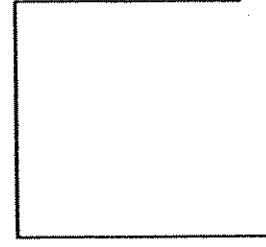
(i) Molly : _____

(ii) Grasshopper : _____

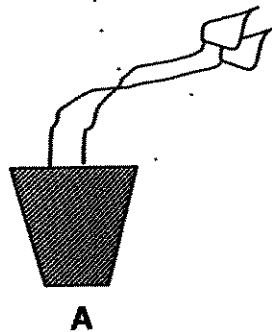
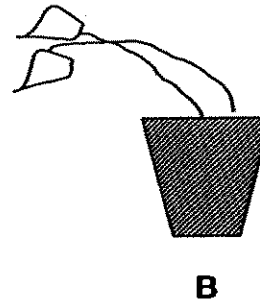
(b) State the difference between X and Z. (1 mark)

(c) Can Z be a mammal? Explain your answer. (1 mark)

44. Sammy grew some beans in 2 cups of damp soil A and B in the garden. She placed the cups in two of the following cardboard boxes X, Y and Z with a hole in different positions.

**X****Y****Z**

The pictures below show the plants after 2 weeks.

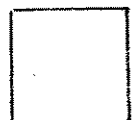
**A****B**

- (a) In which cardboard box (X, Y or Z) was each cup placed? (1 mark)

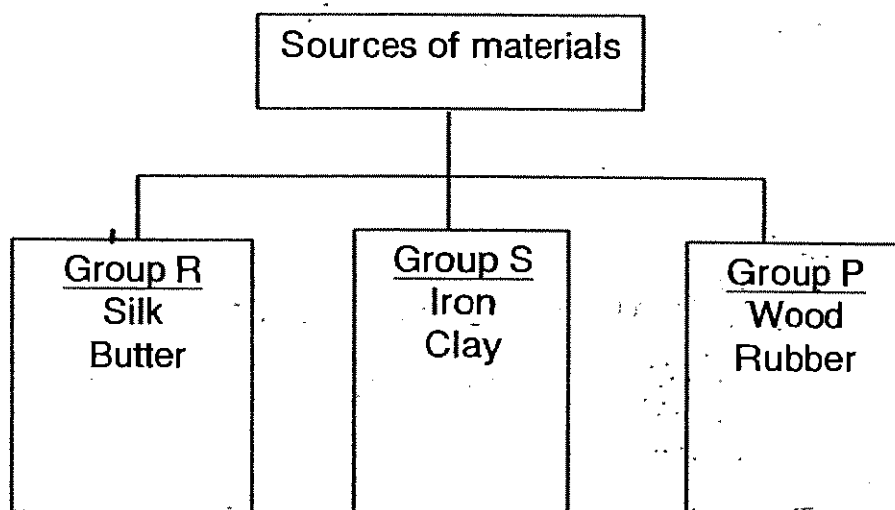
Cup A was placed in Box _____

Cup B was placed in Box _____

- (b) What characteristic of plants is shown in the above experiment? (1 mark)



45. Study the classification table below.



(a) Give suitable headings for groups R, S and P. (1½ marks)

Group R : _____

Group S : _____

Group P : _____

(b) In which group would you place plastic? Give a reason for your answer. (1 mark)

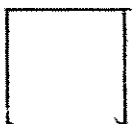


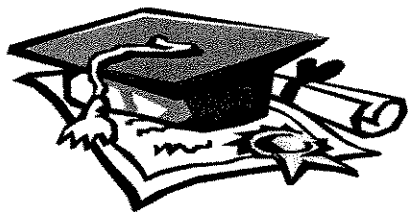
46. Fatimah used a piece of dry sponge for cleaning dishes. After a few minutes in the water, she noticed that the sponge became heavier. She concluded that the sponge was a living thing as it needed water to grow.

Was Fatimah correct to conclude that the sponge was a living thing?
Explain your answer clearly. (2 marks)

*******End of Paper*******

Have you checked your paper?





ANSWER SHEET

CHIJ PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3

2. 3

3. 2

4. 2

5. 2

6. 2

7. 2

8. 3

9. 4

10. 1

11. 1

12. 3

13. 2

14. 4

15. 4

16. 2

17. 3

18. 3

19. 1

20. 4

21. 2

22. 4

23. 3

24. 2

25. 4

26. 1

27. 2

28. 3

29. 2

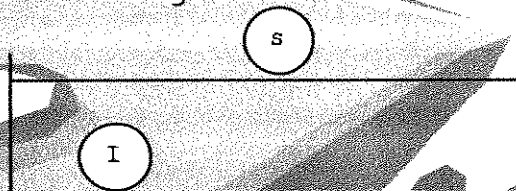
30. 4

31) a) i) They both have feathers.

ii) A hen have a short leg and ostrich have a leg long.

b) It belong to birds.

32) a)



b) Tom was trying to find if the balls float or sink.

33) a) Mushroom don't make their own

food but fern make their own food.

b) Mushroom don't have roots but fern have

34) a) Because the snail don't have air

b) Janet have to poke holes on the cover.

35) a) i) fin ii) gills cover

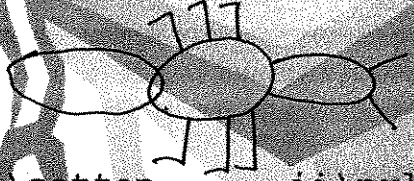
b) i) The fin is for the fish to swim.

ii) The gills cover help to protect the gills.

36) a) The thread that grew on the bread is bread mould.

b) The tiny black dots is spores.

c) No mould would be formed. There is no water in the toast bread.

- 37) i) They grow at different parts of the pond.
ii) All of P and part of Q are above the water but R is below the water.
- 38) a) Plastic and metal.
b) Glass. Because glass is transparent.
- 39) a) Andrew. He has gained 17kg over the 8 years.
b) i) True ii) Impossible iii) False iv) Impossible
- 40) a) i) head ii) thorax iii) abdomen
b) 
- 41) a) i) cotton ii) nylon
b) Nylon. Because cotton is too soft and nylon is stronger.
- 42) a) plant T bear fruit, it is a land plant and it is not poisonous.
b) Plant S is a land plant and plant U is a water plant.
c) i) T ii) U iii) W iv) S
- 43) a) i) Y ii) X
b) X is an insect but Z
c) Yes Mammals like platypus and anteater lay eggs
- 44) a) Cup A: Z
Cup B: X
b) It grows towards sunlight
- 45) a) R: animals
S: ground
P: plants
b) None of the above plastic is man-made.
- 46) No, Fatimah is not correct because the sponge absorbed water and it does not reproduce.



南洋小學
NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE
SEMESTRAL ASSESSMENT 1

2007

BOOKLET A

Date : 7 May 2007

Duration : 1 h 45 min

Name : _____)

Class: Primary 3 _____ ()

Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature:

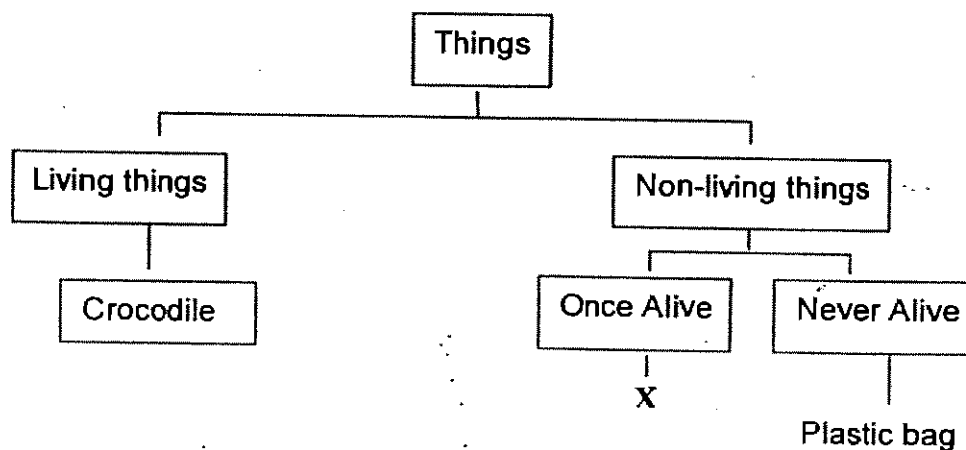
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.

Booklet A consists of 18 printed pages including this cover page.

Section A (30 x 2marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

1.



Which of the following could X be?

- (1) ant
- (2) key
- (3) dried leaf
- (4) sandcastle

2. Study the table below carefully. A tick (✓) indicates that a characteristic is observed and a cross (X) means it is not.

Objects	Characteristics		
	Can grow	Can reproduce	Can move by itself
R	X	X	X
Q	✓	✓	✓

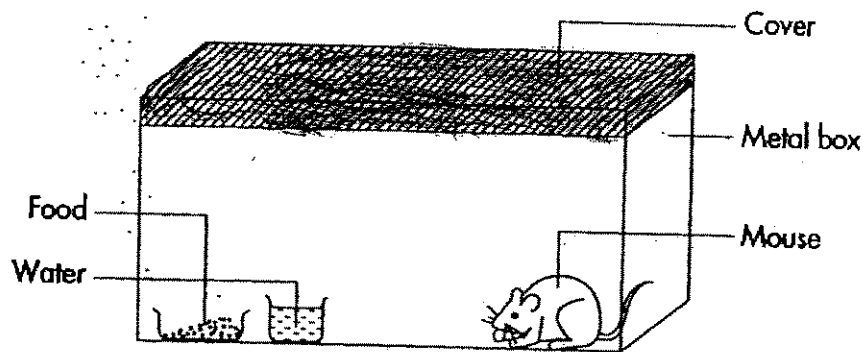
Based on the table, what can 'R' and 'Q' represent?

	R	Q
(1)	cat	car
(2)	cup	ball
(3)	ring	turtle
(4)	worm	beetle

3. Which one of the following statements about non- living things is **true**?

- (1) They need water.
- (2) They do not breathe.
- (3) They can reproduce themselves.
- (4) They can respond to the surrounding changes.

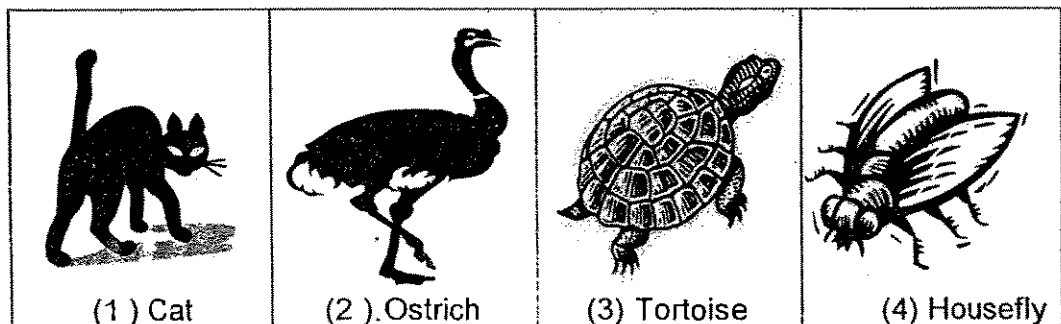
4. Yang placed a mouse in a box together with a dish of water and some food. Then he covered the box to prevent the mouse from getting out. The next day, he found that the mouse had died.



What is the most likely reason for that the mouse died ?

- (1) There is not enough air.
- (2) There is not enough food.
- (3) There is not enough water.
- (4) There is not enough space.

5. John placed the animals below in the same group based on how they reproduce. However, his teacher told him that one of the animals does not belong in this group of animals. Which one of the following animals was placed **wrongly**?



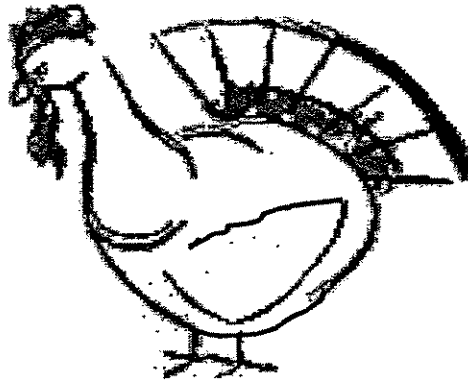
6. Study the picture below.



What do you think is the importance of the part that is being removed from the animal?

- (1) It helps the animal to breathe.
- (2) It helps the animal find food.
- (3) It helps the animal reproduce.
- (4) It helps the animal protect its body.

7. Study the picture of the animal shown below.



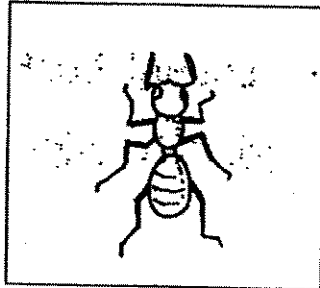
The animal in the picture belongs to group X. Which one of the statements are true of all the animals that belong to group X?

- A They can all fly.
- B They have a pair of wings.
- C They are covered with feathers.
- D They reproduce by laying eggs.

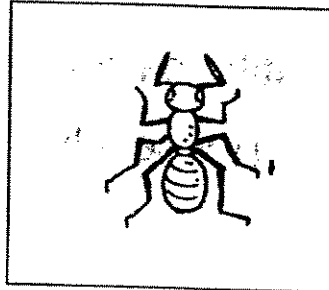
- (1) A and B only
- (2) B and C only.
- (3) B, C and D only
- (4) A, B, C and D

8. Which picture correctly shows the part where the legs of the ant are joined to its body?

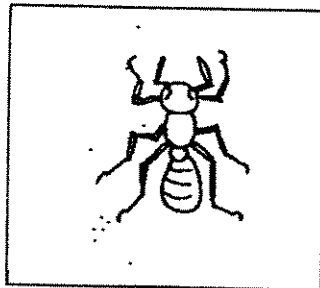
(1)



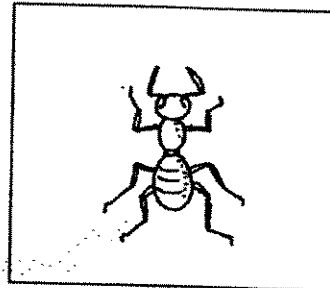
(2)



(3)



(4)



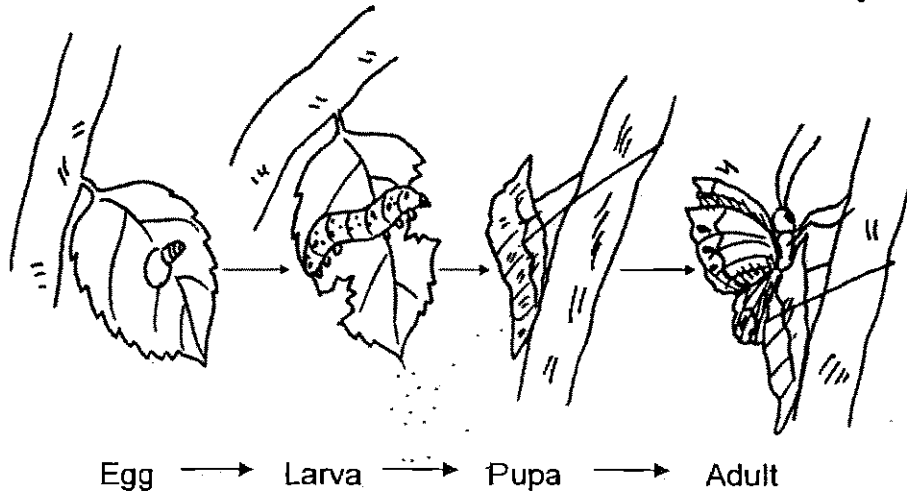
9. Gary observed an animal and describes its characteristics as follows:

- It lives in water.
- It has fins on its body
- It breathes with its gills.
- It is covered with scales on its body.

Which one of the following could the animal be?

- (1) fish
- (2) frog
- (3) tadpole
- (4) platypus

10. Study the pictures below.



Which of the following statements about the above life cycle is/are **not** correct?

- A The young of the butterfly looks like its adult.
 - B All butterflies go through a life cycle of 4 stages.
 - C The caterpillar changes its size during its life cycle.
 - D The eggs of the butterfly are laid on the food of the caterpillar.
- (1) A only
 - (2) B and C only.
 - (3) C and D only
 - (4) A, B, C and D

11. The table below shows the characteristics of four animals, A, B, C and D. Which animal is most likely to be a **dragonfly**?

	Animal	Number of feelers	Number of wings	Number of legs
(1)	A	0	2	2
(2)	B	2	4	2
(3)	C	0	2	6
(4)	D	2	4	6

12. Suki made the following comparisons between reptiles and birds.

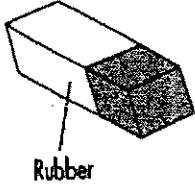

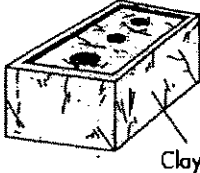
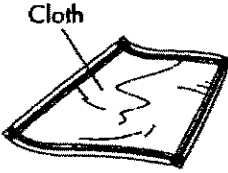
- A Both lay egg.
- B Reptiles have scales but birds have feathers.
- C Reptiles only feed on animal but birds feed on plants.

Which of her comparisons are correct ?

- (1) A only
 - (2) B only
 - (3) A and B only
 - (4) B and C only
13. Which one of the following can be obtained naturally?

- (1) Rock
- (2) Glass
- (3) Nylon
- (4) Plastics

14. In an experiment, Tom went up to tenth floor of a tall building and dropped the following items to the ground.

			
Eraser	Coin	Brick	Handkerchief

Which one of the following objects will mostly likely break upon hitting the ground?

- (1) coin
- (2) brick
- (3) eraser
- (4) handkerchief

15. The picture below shows a pair of spectacles.



What properties must material used to make part X and Y have ?

	Property of material used to make X	Property of material used to make Y
(1)	Waterproof	Stretchable
(2)	Transparent	Strong
(3)	Thin	Absorb water
(4)	Breakable	Smooth

16. Which one of these objects is most likely made of **one material** only?

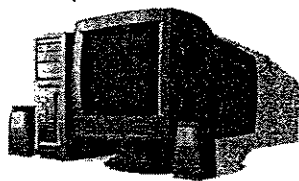
(1)



(2)



(3)



(4)



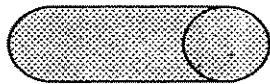
17. Study the object below.



Why do you think it is made of paper instead of other materials?

- (1) Paper is light.
- (2) Paper is waterproof.
- (3) Paper is transparent.
- (4) Paper is white in colour.

18. Study the two similar objects below.



Wooden Rod



Iron Rod

What is the difference between the two objects?

- (1) One allows light to pass through and the other does not.
- (2) One floats while the other sinks when they are put in a basin of water.
- (3) The material of one of the rod comes from plants and the other from animals.
- (4) One is made of natural material and the other is made of man-made material.

19. Lionel saw a plant and wrote down the following characteristics:

- It has flowers.
- It grows on land.
- It has edible fruit.

What plant could Lionel have seen?

- (1) moss
- (2) cattail
- (3) papaya tree
- (4) mangrove tree

20. Which one of the following statements about plants is **not correct**?

- (1) Flowering plants have spores.
- (2) Plants may grow on land or water.
- (3) Chlorophyll enables plants to make their own food.
- (4) Some plants trap insects in order to obtain extra nutrients.

21. Which one of the following sentences are examples of how plants are useful to us?

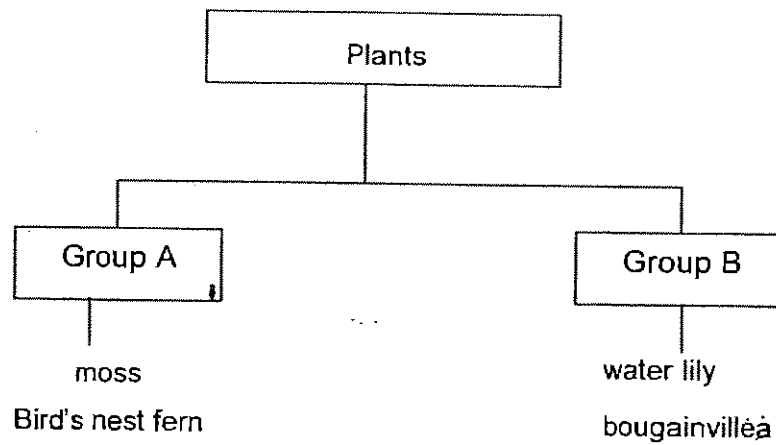
- A They provide shade.
- B They beautify the place.
- C They cause food to decay.
- D They provide carbon dioxide.

- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) A, B, C and D

22. Which one of the following plants does not float on water?

- (1) hydrilla
- (2) duckweed.
- (3) water lettuce
- (4) water hyacinth

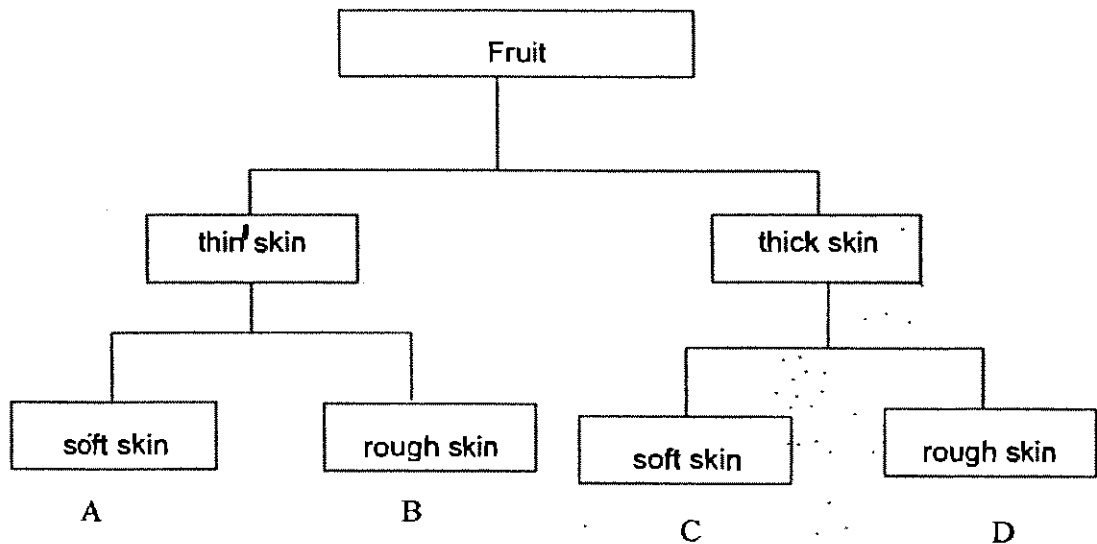
23. Study the classification chart below.



Which one of the following options shows the characteristics used to classify the two group of plants.

	Group A	Group B
(1)	Do not make their own food	Make their own food
(2)	Land plants	Water plants
(3)	Floating plants	Partially-submerged plants
(4)	Non-flowering plants	Flowering plants

24. Study the classification chart below.



What could fruits A, B, C and D be?

	A	B	C	D
(1)	durian	lemon	papaya	strawberry
(2)	lemon	durian	strawberry	papaya
(3)	papaya	strawberry	lemon	durian
(4)	strawberry	papaya	durian	lemon

25. Study the table below carefully.

Characteristics	A	B	C	D
Able to make food on its own?	No	No	Yes	No
Able to move from place to place on its own?	No	Yes	No	Yes

Which one of the following could A, B, C and D be?

	Item A	Item B	Item C	Item D
(1)	fern	mould	grasshopper	mouse
(2)	mould	mouse	fern	grasshopper
(3)	grasshopper	fern	mouse	mould
(4)	grasshopper	mouse	fern	mould

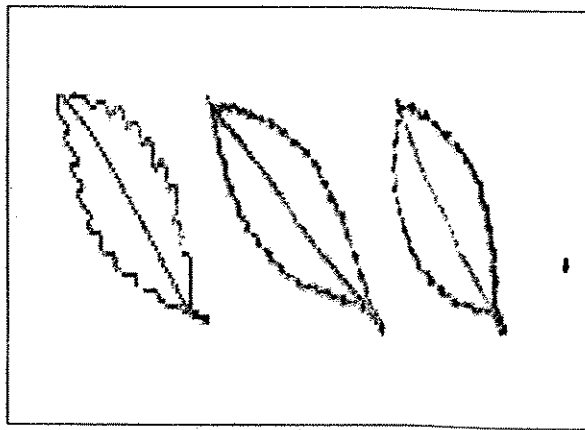
26. Study the description of the two plants below.

Plant	Description
Plant A	I am a flowering plant. I have fruits which grow singly. My fruit has a smooth outer covering and one seed.
Plant B	I do not bear fruit. I make my own food. I produce spores.

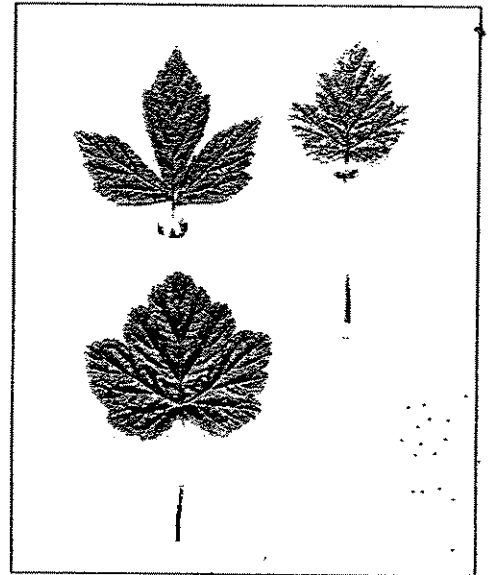
Which one of the following could A and B represent?

	A	B
(1)	kiwi	puff balls
(2)	mango	moss
(3)	durian	yeast
(4)	lychee	Jew's ears

27. Some leaves are classified into two groups as shown below.



Jagged-edged
leaves



Lobed leaves

Based only on the above classification which one of the following statements about the two groups of leaves is true?

- (1) The lobed leaves are from the same plant.
 - (2) The jagged-edged leaves have smooth and waxy surface.
 - (3) We can also classify plants according to characteristics of their leaves.
 - (4) All plants with jagged-edged leaves are taller than those with lobed leaves.
28. Fungi can break down their food into substances that they can absorb. What is the process called?
- (1) Reproduction
 - (2) Classification
 - (3) Decomposition
 - (4) Photosynthesis

29. Which one of the following statements is true?

- (1) All fungi do not have chlorophyll.
- (2) All micro-organisms are harmful to man.
- (3) All plants reproduce by producing spores.
- (4) All mammals give birth to their young alive.

30. Siti has a pair of new leather shoes. She wet one shoe but kept the other dry. Each shoe was sealed in a clear plastic bag. The bag with the wet shoe was left in a bright place while the dry one was placed in a dark place. What would she most likely observe after a month?

- (1) Mould is growing on both shoes.
- (2) There are no mould on both shoes.
- (3) Mould was growing on the shoe which was placed in the dark place.
- (4) Mould was growing on the shoe which was placed in the bright place.



南洋小學

NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE

SEMESTRAL ASSESSMENT 1

2007

BOOKLET E

Date : 7 May 2007

Duration : 1 h 45 min

Name : _____)

Class: Primary 3 _____

Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature:)

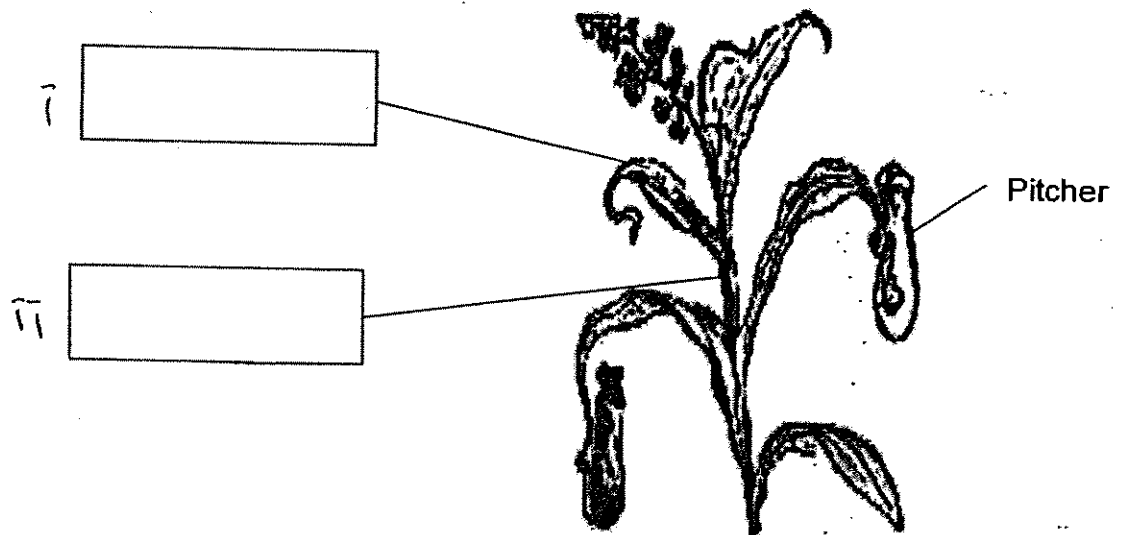
**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

Booklet B consists of 13 printed pages including this cover page.

Section B (40 marks)

Write your answers to questions 31 to 46 in the spaces provided.
Marks will be deducted for misspelt key words.

- 31 a) Name the following parts of the pitcher plant. (1 mark)

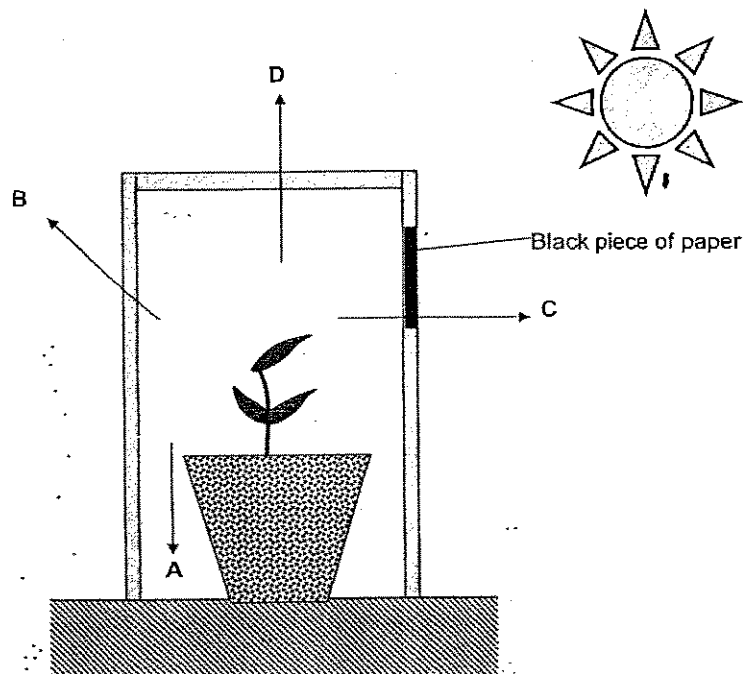


- b) How is the pitcher useful to the plant ? (1 mark)

32. Fill in the blanks with suitable words to complete the paragraph about parts of plant. (2 marks)

The _____ of a plant supports the branches and leaves.
When the plant grows into a tree, this part becomes the tree trunk. The
_____ of the tree absorb water and mineral salts.

33. Mr Lim placed a pot with a seedling in a black box. The pot has enough water for the seedlings to grow for a few days. He pasted a piece of black on the opening of the box as shown in the diagram below. The box was placed in a sunny place.



- (a) In which direction (A, B, C or D) will the plant grow after a few days?

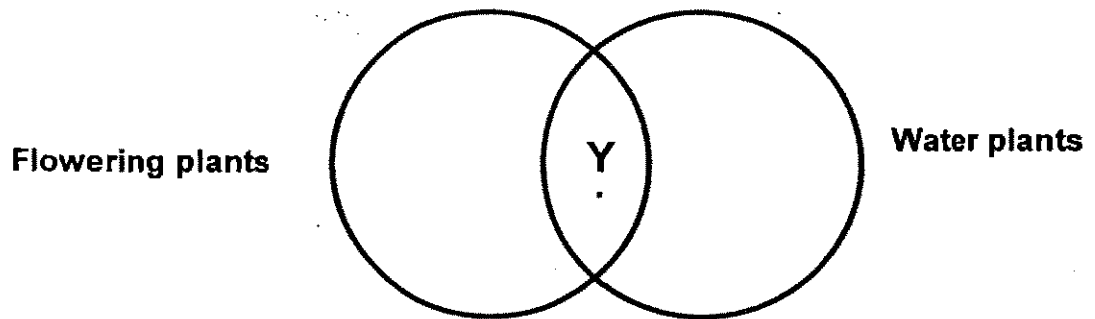
Direction _____ (1 mark)

- (b) (i) In which direction would it have grown if the black paper was removed?

Direction _____ (1 mark)

- (ii) Explain why it grows in the direction that you chosen in (i) ?
(1 mark)

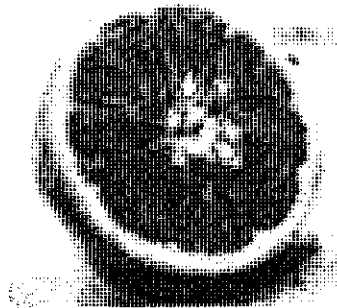
34. The Venn Diagram below shows is used to classify some plants.



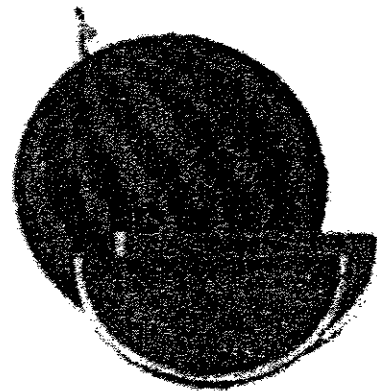
- (a) Mark 'X' in the Venn Diagram to show where **hibiscus** should be placed. (1 mark)

- b) Based on the above Venn Diagram, describe the characteristics of plant 'Y'. (1 mark)

35. Look at the picture of a cut orange and watermelon.



orange



watermelon
watermelon

- a) Based on the picture above, state one difference between the two fruits. (Do not compare the size and shape.) (1 mark)

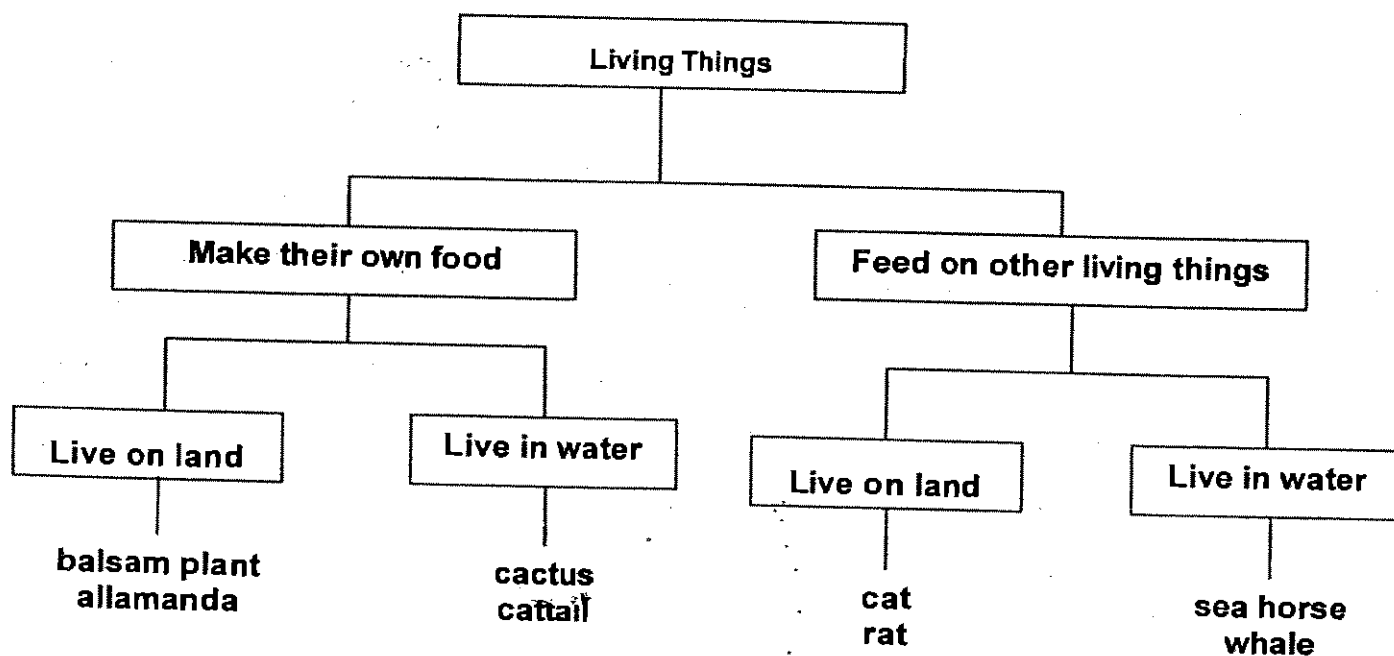
- b) Why are the seeds important to both fruits. (1 mark)

36. Study the following groups carefully.

Group	Organisms
A	yeast, mould
B	hydrilla, duckweed

- a) Mushroom should be classified in Group _____. (1 mark)
- b) Water lettuce should be classified in Group _____. (1 mark)

37. Study the classification below and answer parts (a), (b) and (c)



- (a) (i) One of the living things has been classified wrongly.
Circle it in the above classification (1 mark)

- (ii) Explain your choice in part (i). (1 mark)

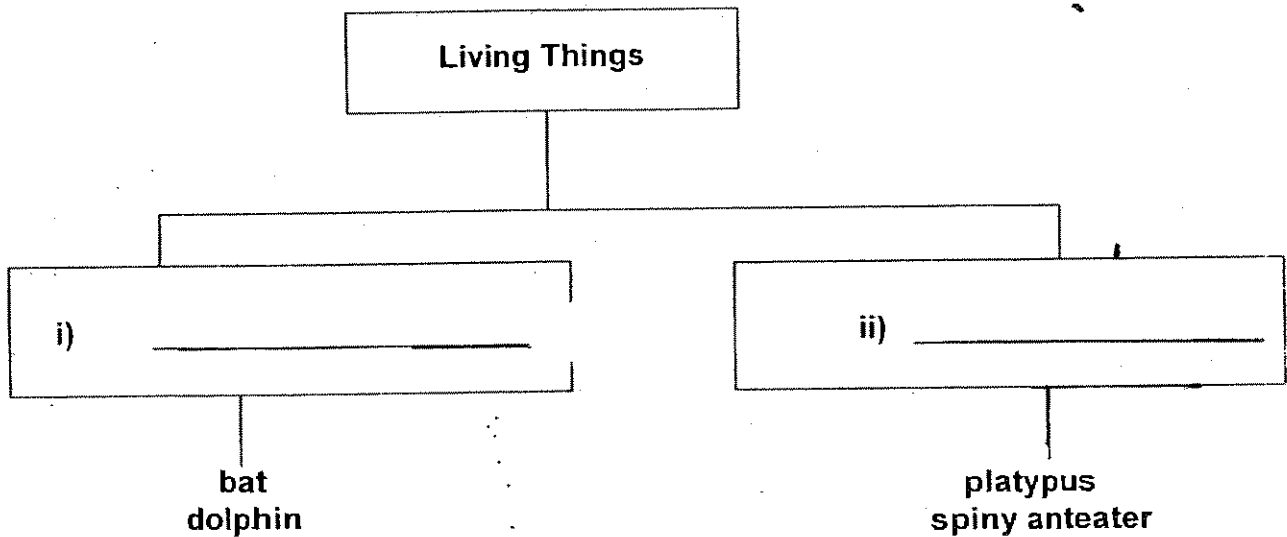
- (b) According to the above classification, how is a cattail different from a cat? (1 mark)

- (c) Name 2 characteristics common to all the living things that have been classified above. (2 marks)

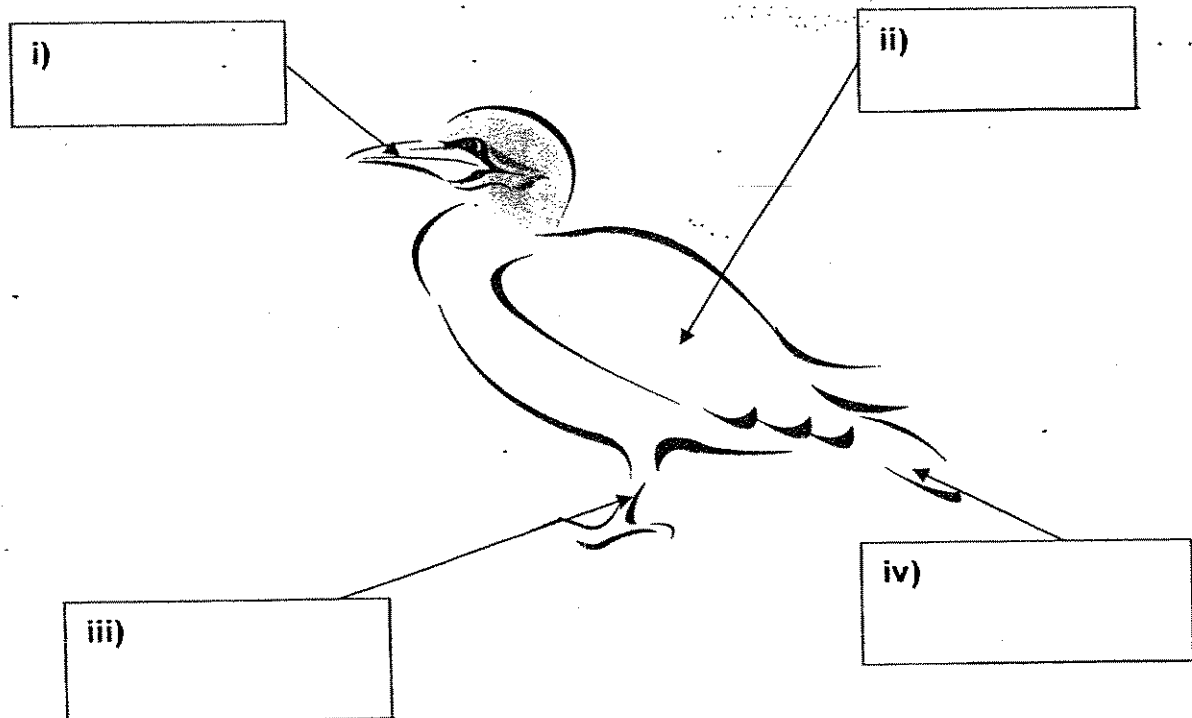
(i) _____

(ii) _____

38. Look at the classification below and fill in the blanks (i) and (ii) with the suitable headings (2 marks)

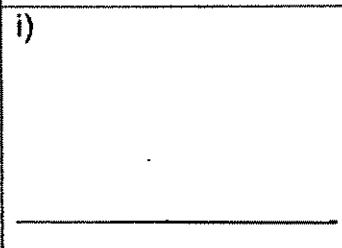
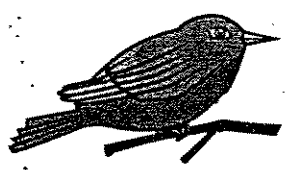

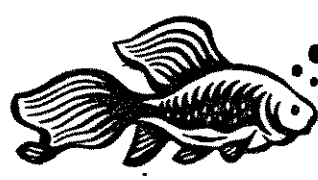
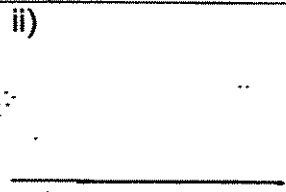
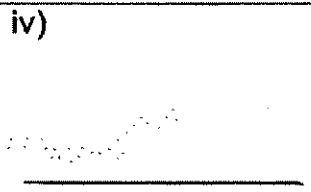
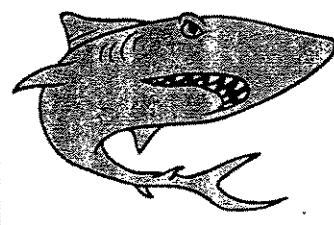
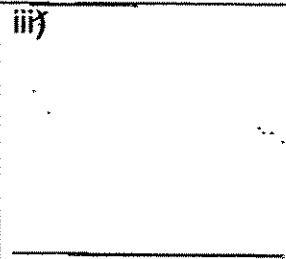



39. Label the parts of the animals below. (2 marks)

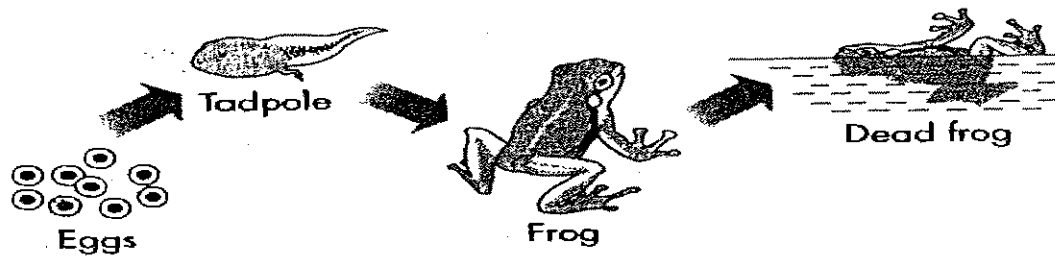


40. Sort all the 4 animals listed in the table below into three groups according to the diagram below: (4 marks)

mosquito	penguin	swordtail	kingfisher
----------	---------	-----------	------------

Animals		
Fish	Birds	Insects
i) 		
	ii) 	iv) 
	iii) 	

41. Based on the pictures below, name two characteristics of living things



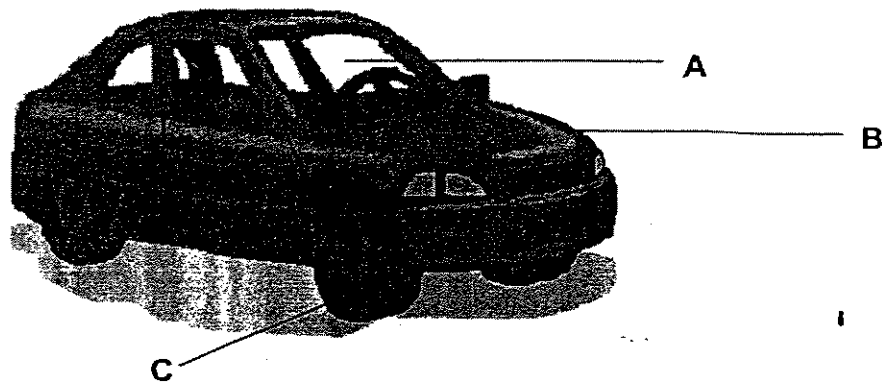
(a) _____ (1 mark)

(b) _____ (1mark)

The adult frog has no tail but the tadpole has.

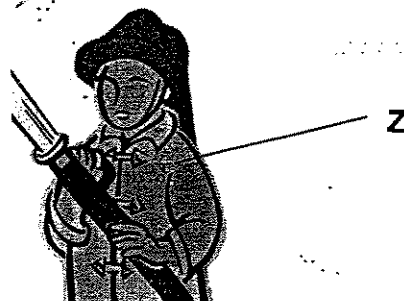
(c) How is the tail useful to the tadpole ? (1 mark)

42. Study the diagram below. Name materials suitable for making each of the parts labelled A, B and C. (3 marks)



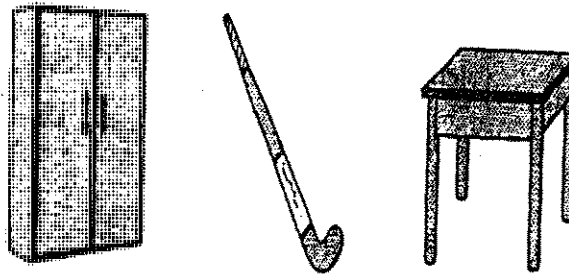
A: _____
B: _____
C: _____

43. Look at the clothing for a fireman labelled Z below.



State 2 properties that the material used to make Z should have. (2 marks)

44. Study the diagram below.



- (a) The above objects are made from a material that was once alive.
What material is it ? (1 mark)

- (b) Name one property of iron that make it **not** suitable to use to make these objects (1 mark)

45. Mary wanted to find out how the amount of water given to a plant affects its growth. She planted equal number of plants of similar height in 2 pots S and T. The 2 pots are similar in size and their conditions are stated below.

	Pot S	Pot T
Amount of water given daily	3 ml	6 ml
Type of soil	Sandy soil	Sandy soil

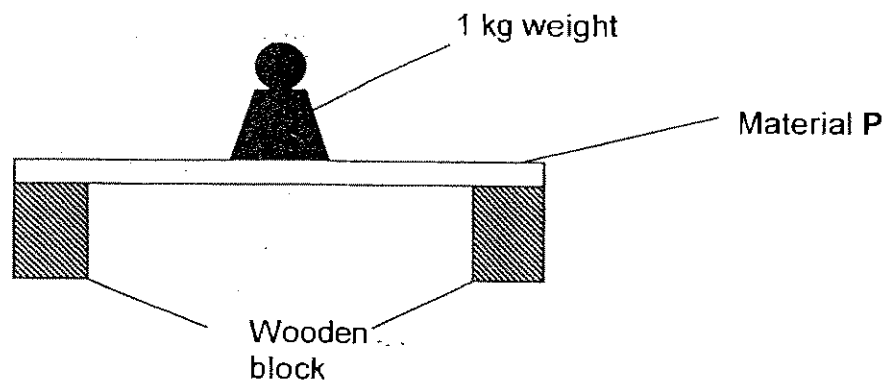
After 2 weeks, Mary found that the plants in Pot T had increased in their height more than those in Pot S.

- (a) According to her result, state how the amount of water given to the plant affects the height of the plant. (1 mark)

Sally told Mary that if she had used garden soil instead of sandy soil for her experiment, the plants would grow even taller.

- (b) Beside water, what substances could be found in the garden soil that would enable the plants to grow better? (1 mark)

46. Jack carried out the following experiment shown below.



He kept adding weights to the centre of material P until it broke. He repeated the same experiment with another material Q. Material P and Q were of the same size. The table below shows the results of his experiment.

Amount of weight required to break material P	Amount of weight required to break material Q
8 kg	2 kg

- (a) What property of material P and Q was Jack investigating ? (1 mark)

- (b) Which material P or Q would be more suitable for making crate to carrying very heavy objects ? (1 mark)

Material _____


-----End of Paper -----

Setters : Eng Li Li
Rebecca Chua



ANSWER SHEET

NANYANG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3
2. 3
3. 2
4. 1
5. 1
6. 4
7. 3
8. 2
9. 1
10. 1
11. 4
12. 3
13. 1
14. 2
15. 2
16. 1
17. 1
18. 2
19. 3
20. 1
21. 1
22. 1
23. 4
24. 3
25. 2
26. 2
27. 3
28. 3
29. 1
30. 4
- 31) a) i) leaves ii) stem
b) Helps the plant to get extra nutrients.
- 32) stem, roots
- 33) a) D b) i) C ii) Plants grow towards sunlight.
- 34) a) 
b) Plant Y is a flowering plant and a water plant.
- 35) a) Orange has fewer seeds than the watermelon.
b) The seeds help the plant to reproduce.
- 36) a) A b) B
- 37) a) i) cactus.
ii) A cactus does not grow in water but on land.
b) A cattail makes its own food and lives in water but a cat feeds on other living things and lives on land.
c) i) They can grow.
ii) They can reproduce.
- 38) i) Give birth to young live.
ii) lay eggs.

39) i) beak ii) wings iii) legs iv) tail

40) i) swordtail ii) penguin iii) king fisher
iv) mosquito

41) a) Living things can grow.
b) Living things can die.
c) The tail helps the tadpole swim.

42) A: glass B: metal C: rubber

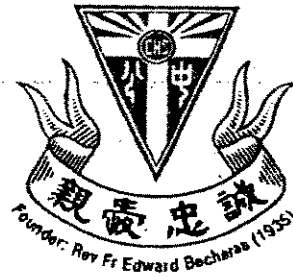
43) It is fireproof and water proof.

44) a) The material is wood.
b) iron is heavy.

45) a) The greater the amount of water, the plant
will grow taller.
b) Mineral salts nutrients.

46) a) The property was which object is stronger.
b) P

---end---



**CATHOLIC HIGH SCHOOL
PRIMARY 3
SEMESTRAL EXAMINATION 1, 2007
SCIENCE**

Name: _____ ()

Class : Primary 3 _____

Date : 11 May 2007

BOOKLET A

30 Questions
60 Marks

Total Time for Booklets A & B : 1 hour 30 minutes

Instructions to Candidates

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Section A: Multiple Choice Questions(60 marks)

For each question from 1 to 30, four options are given. One of them is the most suitable answer. Make your choice (1, 2, 3 or 4) on the Optical Answer Sheet.

1. A bird is a living thing because _____.

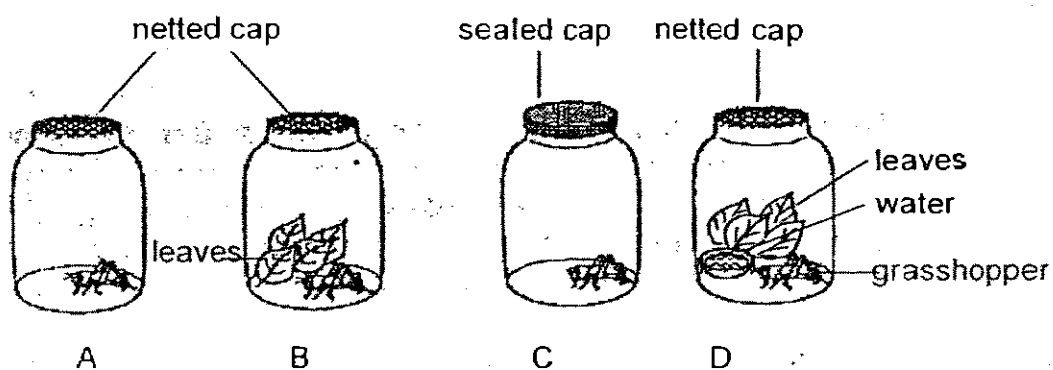
- A it can chirp
- B it can fly away from danger
- C it can reproduce by laying eggs
- D it needs air, food and water to survive

- (1) A and B only
- (2) C and D only
- (3) B, C and D only
- (4) A, B, C and D

2. Which one of the following is not a form of response?

- (1) A hat being blown away by the wind.
- (2) A deer running away when it sees a lion.
- (3) A mimosa plant closes its leaves when it is touched.
- (4) A person removing his hand quickly from a pot of hot water.

3. Four healthy grasshoppers of the same size were placed in 4 jars labeled A, B, C, D that are of the same size, with one grasshopper in each jar.



Arrange the grasshoppers in the jars, starting from the one that would live the longest to the one that will die first.

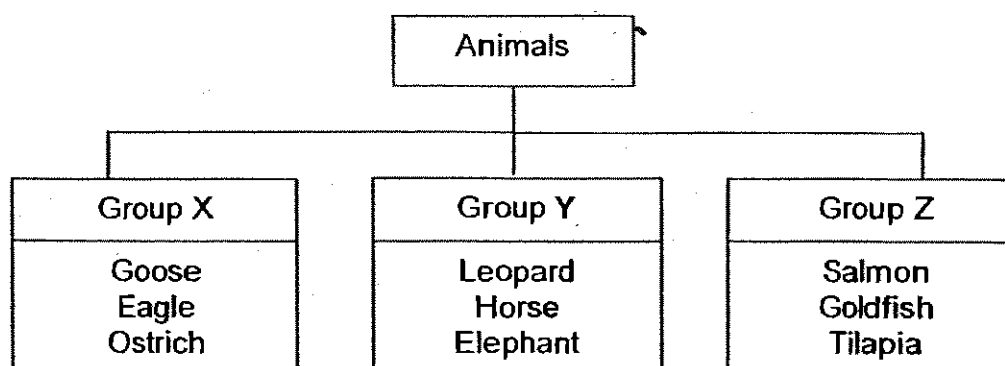
- (1) B, D, A, C
- (2) B, D, C, A
- (3) C, A, D, B
- (4) D, B, A, C

4. Dylan wanted to conduct an experiment to find out how light affects the growth of plants. Which two of the following set-ups should he use?

Set-up	Plant	Conditions			
		Air	Sunlight	Water	Fertiliser
A	Balsam	✓	✓	✓	✓
B	Rose	✓		✓	✓
C	Balsam	✓		✓	✓
D	Rose	✓	✓		✓

- (1) A and C
- (2) A and D
- (3) B and C
- (4) B and D

5. The diagram below shows a classification table.




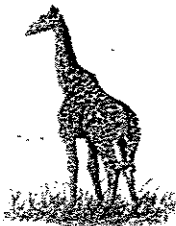






Which of the following animals can be placed under Groups X, Y and Z respectively?

	X	Y	Z
(1)	Duck	Sheep	Piranha
(2)	Turtle	Ant	Silverfish
(3)	Emu	Duck	Tortoise
(4)	Rhinoceros	Emu	Crocodile

6. The table below shows four types of movements and the respective body parts used during the movement. Which one of the following pairs is wrongly matched?

	Movement	Part of the body used
(1)	swim	fins
(2)	fly	wings
(3)	climb	limbs
(4)	glide	legs

7. Some animals are classified under 2 groups, A and B, as shown below.

Group A	Group B
   	   

Which of the following headings below is suitable for the animals in Groups A and B?

Group A	Group B
(1) Give birth to its young	Lay eggs
(2) Lives on land only	Lives in water only
(3) Eats both animals and plants	Eats only plants
(4) Body covered with hair	Body covered with scales

8. Which one of the groups below has a living organism that does not belong to the same group?

- (1) Mould, Shitake, Toadstool
- (2) Ixora, cactus, Venus flytrap
- (3) Allamanda, Pong pong, Dumbcane
- (4) Giant elephant's ear, Pine, Hibiscus

9. The following pupils made the following statements about micro-organisms.

Sean All bacteria cause harm to humans.
 Tim Micro-organisms are so tiny that we need to use a microscope to see them.
 Alex We use bacteria to help us make cheese and yoghurt.
 Jay Examples of micro-organisms are yeast and mould.

Which of the pupils are correct?

- (1) Sean and Tim only
 (2) Tim and Jay only
 (3) Tim and Alex only
 (4) Sean, Alex and Jay only

10. Four slices of bread were placed under different conditions as shown in the table below. Which slice of bread will have the most mould grown on it after two weeks?

	Bread	Conditions of the places where the slices of bread were placed				
		Dark	Sunny	Damp	Dry	Well-Ventilated
(1)	A		✓	✓		✓
(2)	B	✓		✓		
(3)	C		✓			✓
(4)	D	✓			✓	

11. Ferns, fungi and plants have some similarities and differences. Which one of the following table shows their characteristics correctly?

(1)

Organisms Characteristics	Ferns	Fungi	Flowering Plants
Make food	✓		✓
Produce spores	✓		

(2)

Organisms Characteristics	Ferns	Fungi	Flowering Plants
Make food	✓		✓
Produce spores		✓	✓

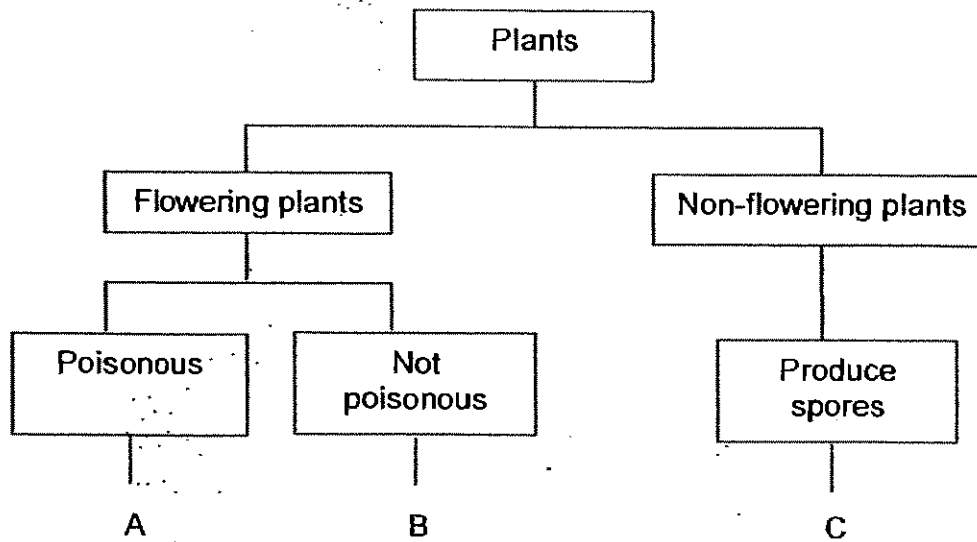
(3)

Organisms Characteristics	Ferns	Fungi	Flowering Plants
Make food	✓		✓
Produce spores	✓	✓	

(4)

Organisms Characteristics	Ferns	Fungi	Flowering Plants
Make food			✓
Produce spores		✓	✓

12. Study the classification table below.



Which of the following plants correctly represents A, B and C?

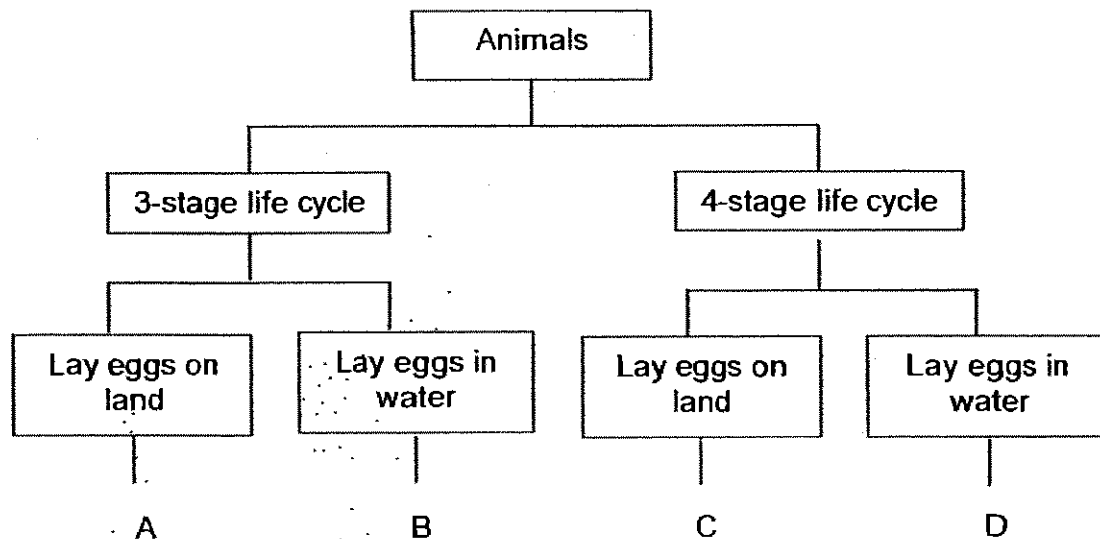
	A	B	C
(1)	Dumbcane	Durian	Hibiscus
(2)	Allamanda	Coconut	Mushroom
(3)	Bamboo	Coconut	Pine
(4)	Durian	Allamanda	Dumbcane

13. Which of the following statements about insects are true?

- A All insects have wings.
- B All insects live on land.
- C All insects have 3 body parts.
- D All insects have 3 pairs of legs.

- (1) A and B only
- (2) C and D only
- (3) B and D only
- (4) A, B, C and D

14. Study the classification table below.



What are A, B, C and D most likely to be?

	A	B	C	D
(1)	Ant	Frog	Mosquito	Butterfly
(2)	Cockroach	Frog	Butterfly	Mosquito
(3)	Cockroach	Guppy	Ant	Mosquito
(4)	Chicken	Guppy	cockroach	Butterfly

15. Men can be similar in many ways except for their _____.

- (1) height
- (2) weight
- (3) hairstyle
- (4) fingerprints

16. A scientist who was studying the habits of a particular animal made daily notes on the animal's life cycle from the day it was hatched. He recorded the following information.

It was hatched in an egg found in an egg case in a dark place.

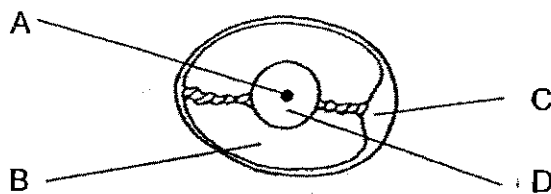
It is similar to its parent. It is smaller and does not have wings.

It feeds on almost anything they can find.

Based on the above information, what is the animal most likely to be?

- (1) chicken
 - (2) mosquito
 - (3) cockroach
 - (4) grasshopper
17. Which of the following animals have young which looks the same as their parents?
- (1) Frog and mosquito
 - (2) Crocodile and horse
 - (3) Cockroach and mealworm
 - (4) Butterfly and praying mantis

18. The figure below shows a hen's fertilized egg.

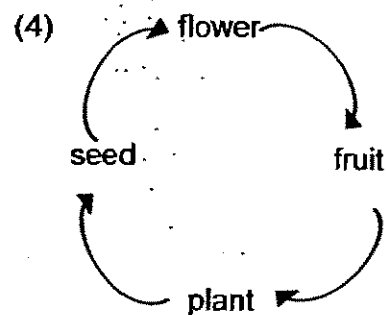
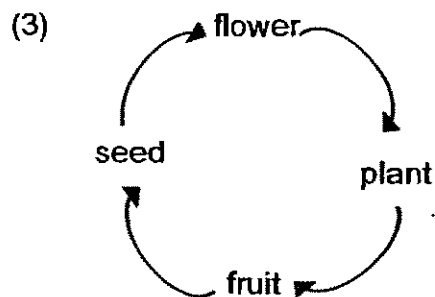
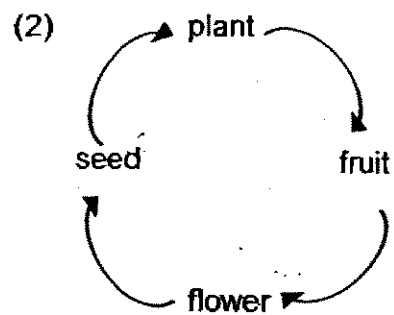
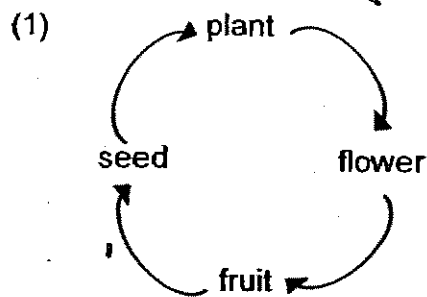


Which part A, B, C or D, provides both food and protection for the chick?

- (1) A
 (2) B
 (3) C
 (4) D
19. The table below shows some characteristics of eggs laid by frogs and butterflies. Which set of characteristics is incorrect?

	Characteristics	Frog	Butterfly
(1)	Eggs are protected with a jelly-like substance.	✓	x
(2)	Eggs are laid in water.	✓	x
(3)	The size of the eggs are small.	✓	✓
(4)	Eggs are looked after by the adult.	✓	✓

20. Which diagram correctly represents the order of development of a plant?



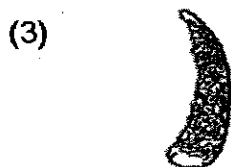
21. All of the following objects are made of materials that come from animals except _____



Leather bag



Rubber band

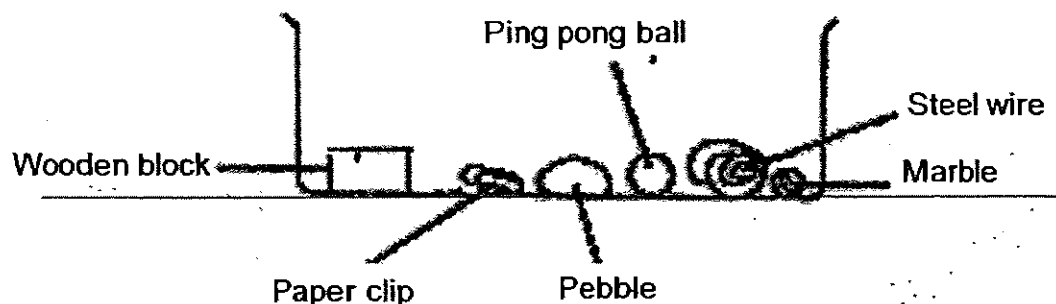


Ivory carving



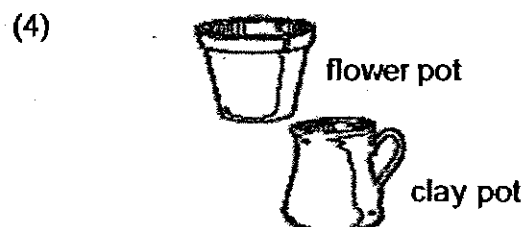
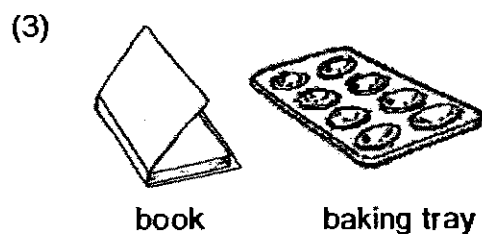
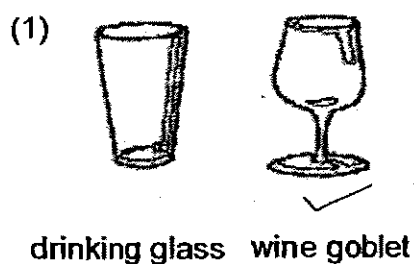
Woolen jacket

22. Paul gently poured some water into a tank which was filled with some items as shown below until it was half-full.

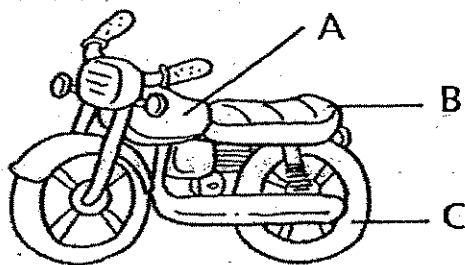


Which of the following object(s) in the tank will rise up to the water surface?

- (1) Ping pong ball only
 - (2) Wooden block and ping pong ball only
 - (3) Wooden block, steel wire and ping pong ball only
 - (4) Paper clip, ping pong ball and Wooden block only
23. Which one of the following pairs of objects is not made from the same material?



24. The diagram below shows a motorbike.



Which materials are most likely used to make the following parts of the motorbike?

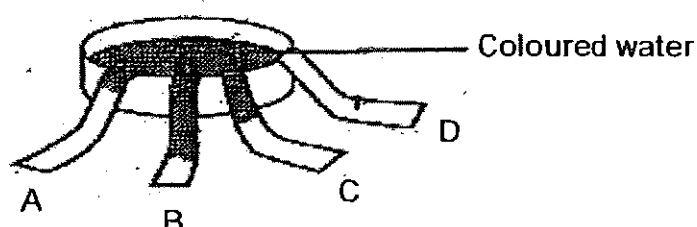
	A	B	C
(1)	plastic	wood	ceramic
(2)	wood	leather	rubber
(3)	metal	leather	rubber
(4)	metal	plastic	wood

25. Which of the following is/are property/ies to consider when choosing a school bag?

- A It is water-proof.
- B It is durable and strong.
- C It is elastic and flexible.
- D It allows heat to pass through easily.

- (1) B only
- (2) A and B only
- (3) A, B and C only
- (4) A, B, C and D

26. Joshua carried out an experiment using four different materials cut out of equal lengths. He placed one corner of each material into an empty dish and poured some coloured water into the dish. The diagram below shows what he observed at the end of the experiment.



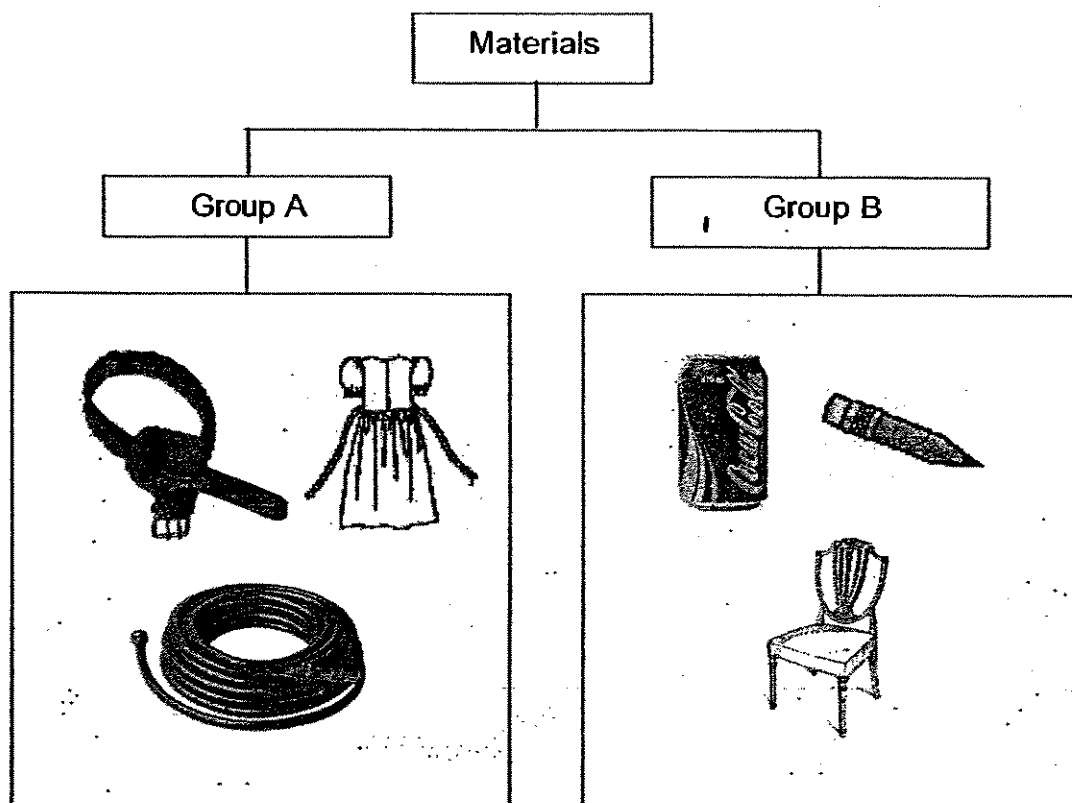
Which one of the following correctly represents A, B, C and D?

	A	B	C	D
(1)	Cloth	Tissue paper	Cardboard	Aluminum foil
(2)	Cardboard	Tissue paper	Cloth	Aluminum foil
(3)	Cardboard	Aluminum foil	Cloth	Tissue paper
(4)	Tissue paper	Cloth	Aluminum foil	Cardboard

27. George is buying a sweater for his trip to Korea during the cold winter. Which of the following type of fabric will be able to give him the best protection against the cold and wet weather?

- (1) silk
- (2) nylon
- (3) cotton
- (4) leather

28. The classification table below shows how some objects are grouped into Groups A and B.



Which of the following headings best describe the objects classified above?

	Group A	Group B
(1)	Made from natural materials	Made from man-made materials
(2)	Flexible	Non-flexible
(3)	Breakable	Non-breakable
(4)	Hard	Soft

29. 3 different materials A, B and C that are of equal thickness are used to scratch each other with the same amount of force. The results are then recorded in the table below.

A can be scratched by B but not by C.

C can be scratched by A and B.

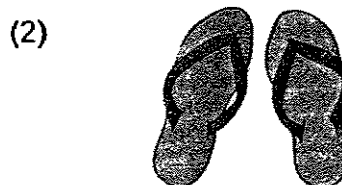
What are materials A, B and C most likely to be?

	A	B	C
(1)	metal	wood	rubber
(2)	wood	metal	wood
(3)	metal	rubber	wood
(4)	wood	metal	rubber

30. Which one of the following footwear would you choose to put on to keep your feet dry on a wet and rainy day?



Canvas school shoes



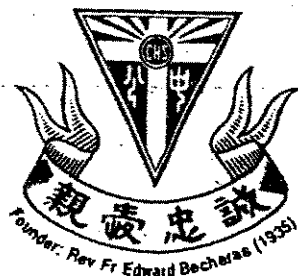
Slippers



High-heel shoes



Rubber boots



**CATHOLIC HIGH SCHOOL
PRIMARY 3
SEMESTRAL EXAMINATION 1, 2007
SCIENCE**

Name: _____ ()

Class : Primary 3 _____

Date : 11 May 2007

BOOKLET B

16 Questions
40 Marks

Total Time for Booklets A & B: 1 hour 30 minutes

Instructions to Candidates

Follow all instructions carefully.
Answer all questions.

Parent's Signature: _____

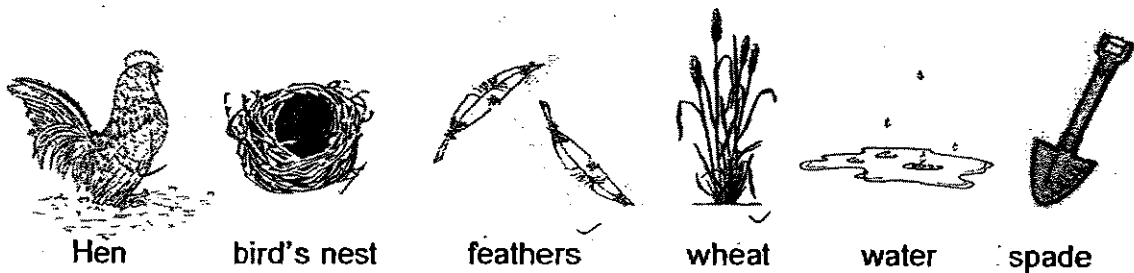
Date: _____

Score	
Section A	60
Section B	40
Total	100

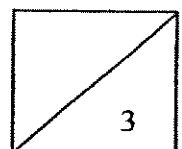
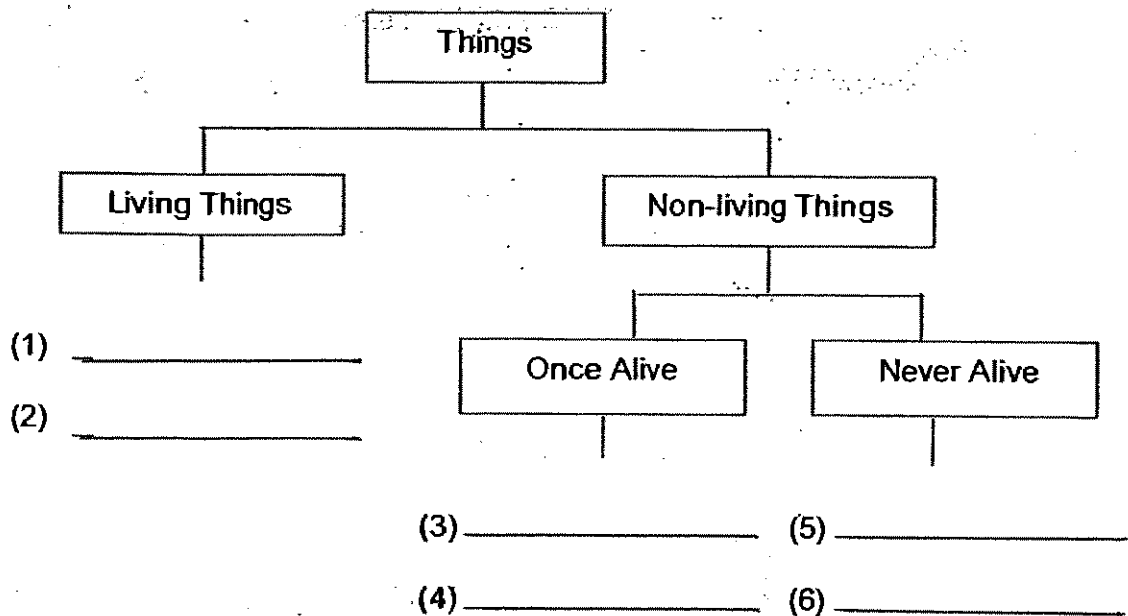
Section B : Open-Ended Questions (40 marks)

Read the following questions carefully and write your answers in the space provided. The maximum marks that can be awarded is shown at the end of each question or part-question.

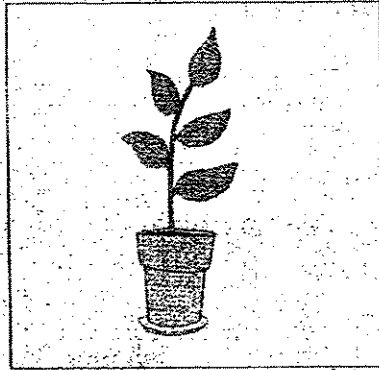
31. Study the following items.



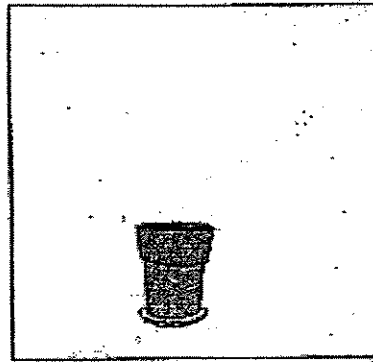
Place the above items under the appropriate headings in the classification table below. [3]



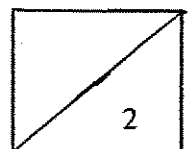
32. The diagram below shows a pot of plant placed near a window.



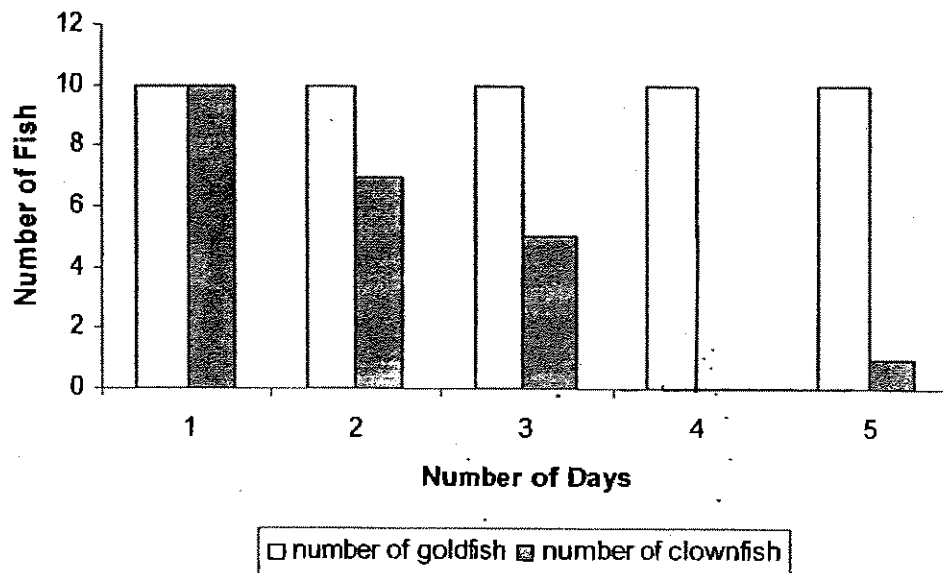
- (a) In the given box below, draw what will happen to the plant after two weeks. [1]



- (b) Why did this happen to the plant? [1]



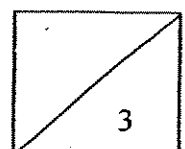
33. Ten goldfish and ten clownfish were introduced into a tank filled with tap water. The air pump was turned on and the fish were fed daily. The bar graph below shows the number of goldfish and clownfish for five days.



- (a) What has happened to the number of clownfish after five days? [1]

- (b) Suggest a possible reason for (a). [1]

- (c) Complete the bar graph by drawing in the column for the number of clownfish on Day 4. [1]

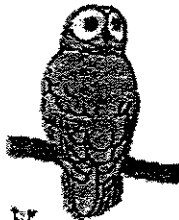


34. Which of these animals do not belong in the same group? Circle it. Explain why it does not belong to the group. [3]

(a)



duck



owl



penguin

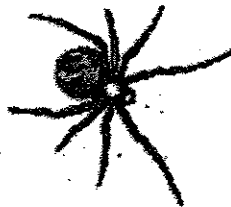


bat

(b)



bee



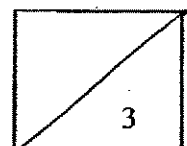
spider



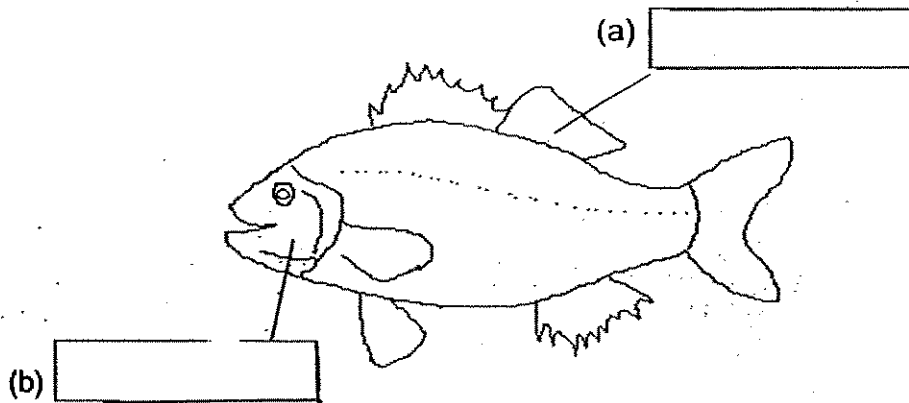
butterfly



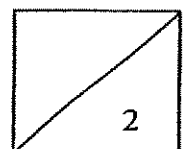
ant



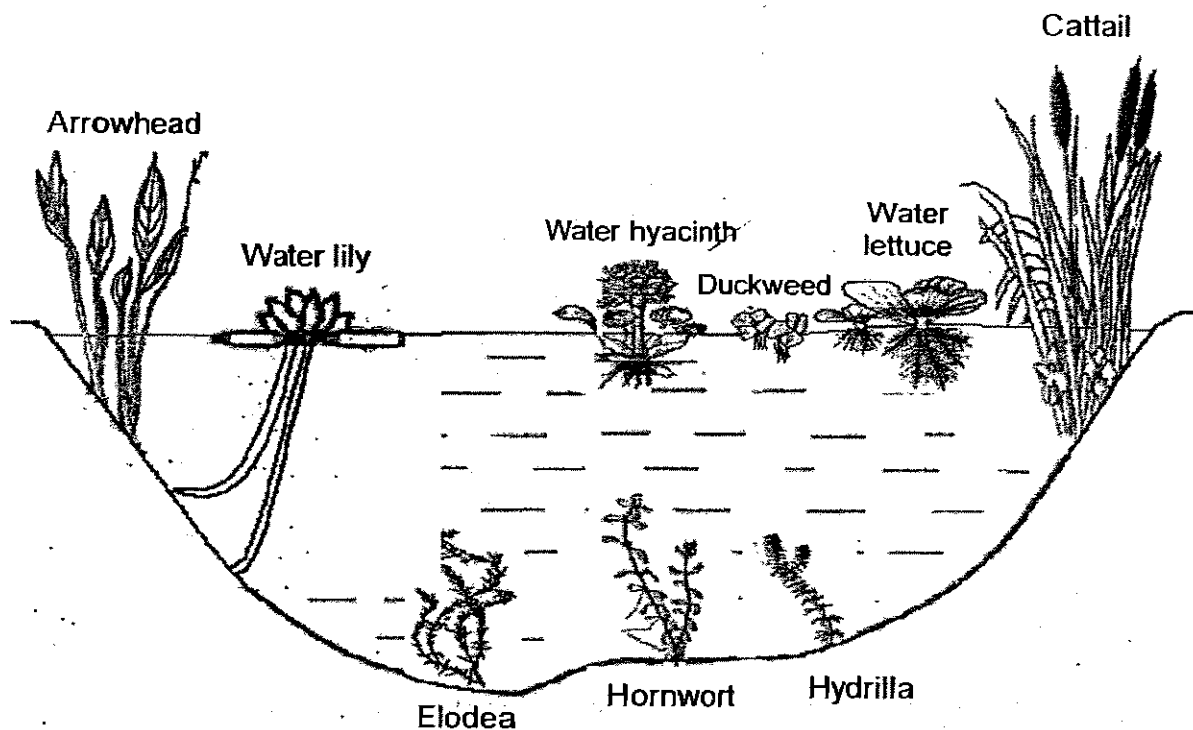
35. The diagram below shows a fish. Label parts (a) and (b) of the fish.



- (c) What will happen to the fish if it does not have the body part labelled (a)? [1]



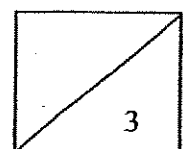
36. The diagram below shows some water plants in a pond.



Classify the water plants above in the correct groups.

[3]

Floating	Partially Submerged	Totally Submerged
Eg: Water lettuce	Eg: Arrowhead	Eg: Hydrilla
a)	c)	e)
b)	d)	f)



37. Study the statements below and write 'T' for true statement or 'F' for false statements in each of the brackets provided. [2]

(a) All birds have wings which enable them to fly. ()

(b) Insects have 3 body parts, namely the antennae, thorax and abdomen.

()

(c) Spores of mushrooms are found in their gills under the gill cover.

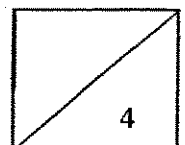
()

(d) Caterpillars are not insects.

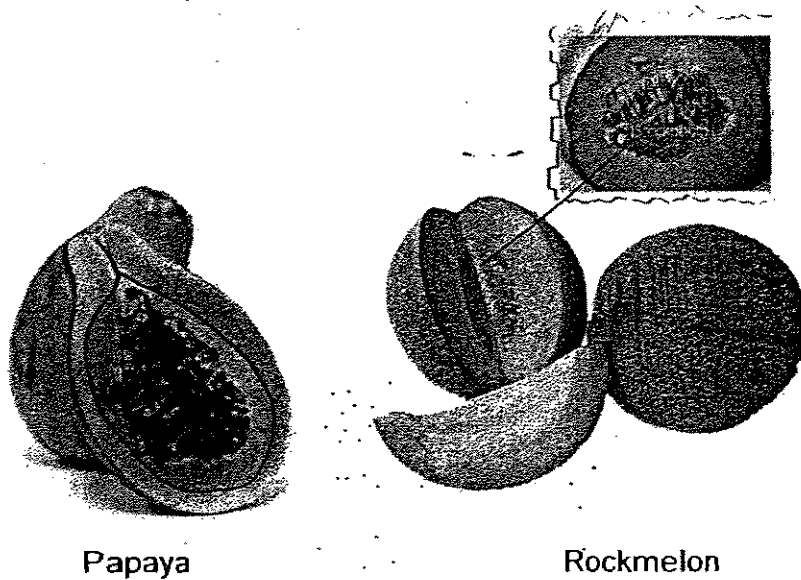
()

38. Fill in the blanks in the paragraph below with appropriate word/s. [2]

All living things are able to have young. They _____ to ensure the continual survival of their kind on Earth. Plants and animals go through a fixed number of stages of growth that repeats itself over and over again, which is called a _____.



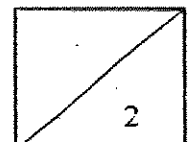
39. The diagram below shows two fruits.



Based only on what you observe in the diagrams above, compare the two fruits. (Do not compare their colour, shapes and sizes). [2]

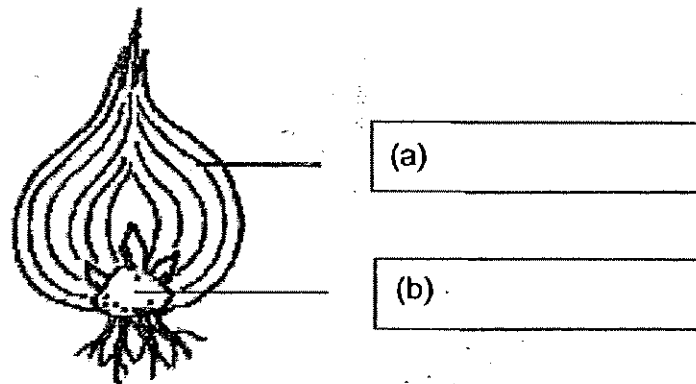
- (a) State one similarity between the two fruits.

- (b) State one difference between the two fruits.



40. Label the parts (a) and (b) of the onion bulb.

[1]

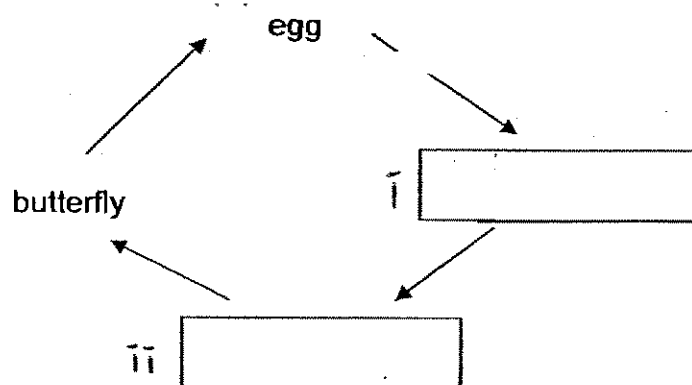


- (c) Name one other plant which grows from an onion bulb.

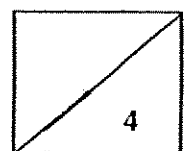
[1]

41. Complete the stages below to show the life cycle of a butterfly.

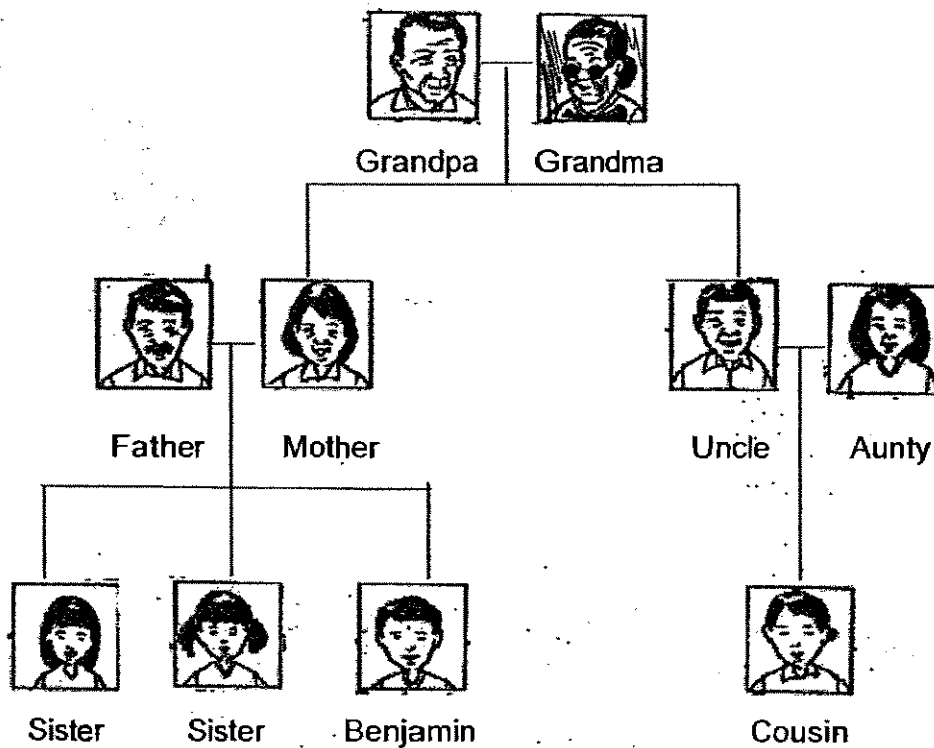
[1]



As the young of a butterfly grows bigger, it needs to _____, which means it will remove the outer skin covering so that there is enough space for it to grow. [1]



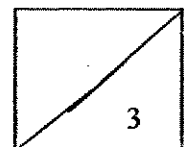
42. The diagram below shows Benjamin's family tree.



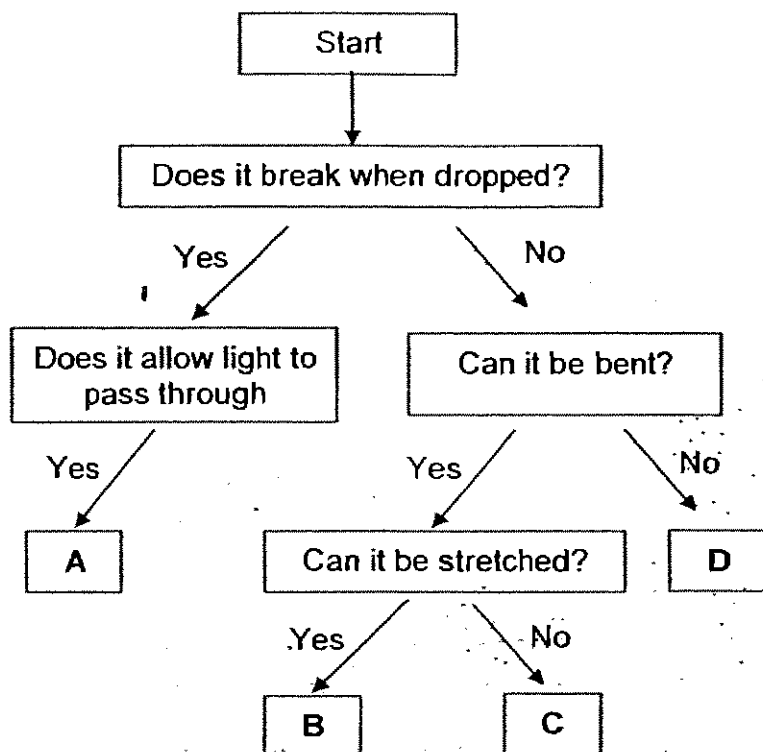
Use only the information from the family tree above to answer the following questions.

[3]

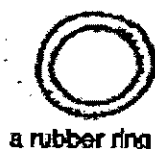
- (a) Grandpa and Grandma have _____ children.
- (b) Benjamin's mother gave birth to _____ children.
- (c) The passing on of characteristics from parents to their young is called _____.



43. Study the flowchart below.



Peter has the following objects. What objects best represents A, B, C and D?



a rubber ring



a piece of glass

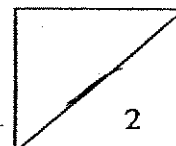


a piece of metal wire



a plastic cup

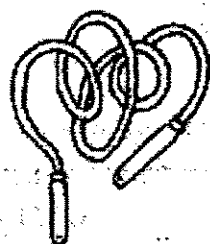
	Objects
A	
B	
C	
D	



44. In the box below are properties used to describe the materials. Match the property which best suits the function of the following objects.

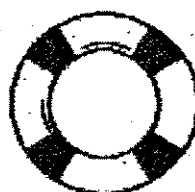
transparent	elastic	waterproof
sharp	float in water	flexible

(a)



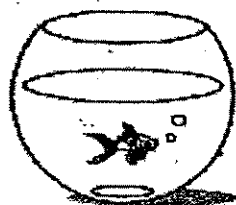
Skipping rope

(b)



Swimming float

(c)

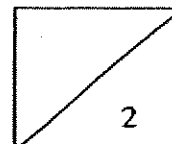


Fish bowl

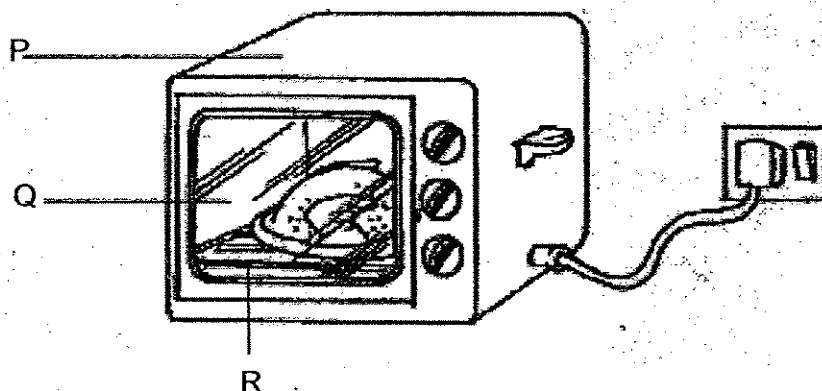
(d)



Sling shot



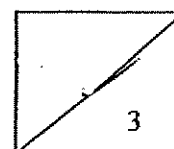
45. The picture below shows an electric oven.



What is the most suitable material used to make the parts labeled P, Q and R? For each material, state one physical property which makes it suitable to make that part of the oven.

[3]

Parts	Material used	Physical Property
P		
Q		
R		



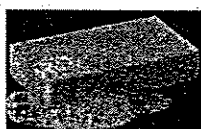
46. Jeremy carried out an experiment on 4 different materials A, B, C and D. He placed a few drops of water on each material and observed them. He recorded his observations as shown in the table below.

Material	Observation
A	The water slowly seeped into the material.
B	The water flowed off the sides of the material.
C	All the water remained as water droplets on the material.
D	The water was absorbed into the material instantly.

- (a) Classify the four material A, B, C and D under the correct headings. [2]

Waterproof materials	Non-waterproof materials

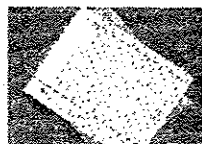
- (b) The 4 objects Jeremy examined were as follows



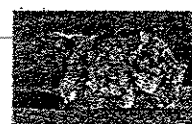
sponge



glass lens



a piece of paper

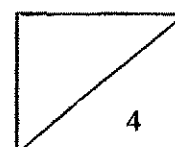


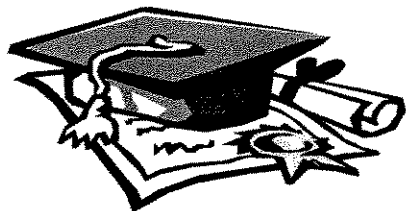
rock

Match the correct object to Materials A, B, C and D.

[2]

Material	Objects
A	
D	





ANSWER SHEET

CATHOLIC HIGH PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

1. 3

2. 1

3. 4

4. 1

5. 1

6. 4

7. 4

8. 4

9. 3

10. 2

11. 3

12. 2

13. 2

14. 2

15. 4

16. 3

17. 2

18. 4

19. 4

20. 1

21. 2

22. 1

23. 3

24. 3

25. 3

26. 2

27. 4

28. 2

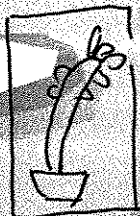
29. 4

30. 4

31) 1) Hen 2) wheat 3) feathers

4) bird's nest 5) water 6) spade

32) a)



b) Plants need sunlight to grow or towards sunlight.

33) a) The number of clownfish has decreased.

b) Clownfish cannot survive in tap water. It must be salted water.

c)



34) a) Bat is not a bird while the rest are.

b) Spider is not an insect while the rest are.

35) a) fin b) gill cover c) It cannot balance.

36) a) water hyacinth b) Duckweed
c) cattail d) water lily
e) Hornwort f) Elodea

37) a) F b) F c) T d) F

38) reproduce, life cycle

39) a) They have seeds.

b) The papaya has smooth skin while the rock melon has rough skin.

40) a) leaves b) stem c) garlic, lily, lotus, water hyacinth, tulip.

41) i) larva ii) pupa
Moult

42) a) 2 b) 3 c) heredity

43) a) a piece of glass b) a rubber ring
c) a piece metal wire d) a plastic cup

44) a) flexible b) float in water
c) transparent d) elastic

45) P: Metal= It is hard.

Q: Glass= transparent

R: Metal= allows heat to pass through.

46) a) C: A
B: D

b) A: paper
D: sponge

**ANGLO-CHINESE SCHOOL
(PRIMARY)**

MID-YEAR EXAMINATION 2007

SCIENCE

BOOKLET A

Name: _____ ()

Class: Primary 3 _____

Date: 10 May 2007

Duration of paper: 1 h 15 min

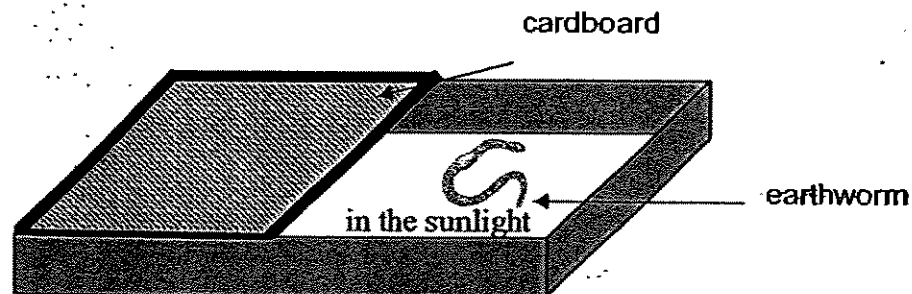
**THIS BOOKLET CONTAINS 11 PAGES.
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

PART I

For each of the following questions from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

[15 x 2 marks]

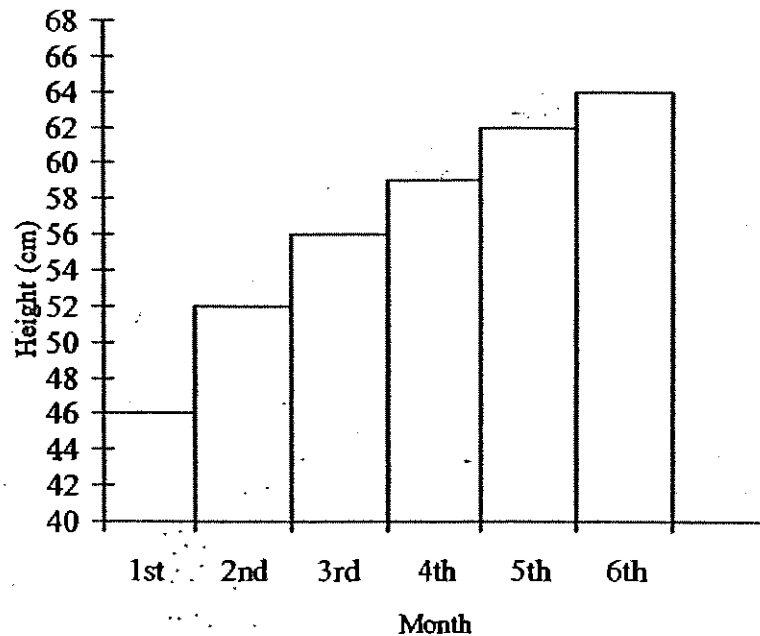
- 1 Benny set up an experiment as shown below. He covered one part of a tray with a piece of cardboard and the other part was exposed to sunlight. An earthworm was then placed in the part exposed to sunlight. After a while, Benny observed that the earthworm was found in the shaded part of the tray.



Based on Benny's observation, what can he conclude about the earthworm?

- (1) It can grow and reproduce.
- (2) It needs sunlight to stay alive.
- (3) It can respond to surrounding changes.
- (4) It needs air, food and water to stay alive.

- 2 The graph below shows the growth of a baby from the first to the sixth month.



The increase in the baby's height is the greatest from the _____.

- (1) 1st month to 2nd month
 - (2) 2nd month to 3rd month
 - (3) 4th month to 5th month
 - (4) 5th month to 6th month
- 3 Which of the following statements are true of mammals?

- A All mammals have hair or fur on their bodies.
- B All mammals give birth to their young alive.
- C All mammals are warm-blooded.
- D All mammals live on land.

- (1) A and C only
- (2) B and D only
- (3) C and D only
- (4) A, B and C only

4 Four boys recorded the following descriptions of Animal X and Animal Y.

Amran : Animal X lays eggs.

Billy : Animal X has fur on its body.

Cathy : Animal Y lays eggs.

Daniel : Animal Y has scales on its body.

Based on the description given, which of the following best represents Animal X and Y?

	Animal X	Animal Y
(1)	Spiny anteater	Penguin
(2)	Duck-billed platypus	Whale
(3)	Spiny anteater	Swordtail
(4)	Duck-billed platypus	Goldfish

5 Fungi are not plants because they _____.

- (1) do not reproduce
- (2) are fixed at one position
- (3) cannot make their own food
- (4) can respond to changes around them

- 6 Four objects are grouped as shown in the table below.

Group A	Group B
Robot	Wooden table
Cloud	Rubber ball

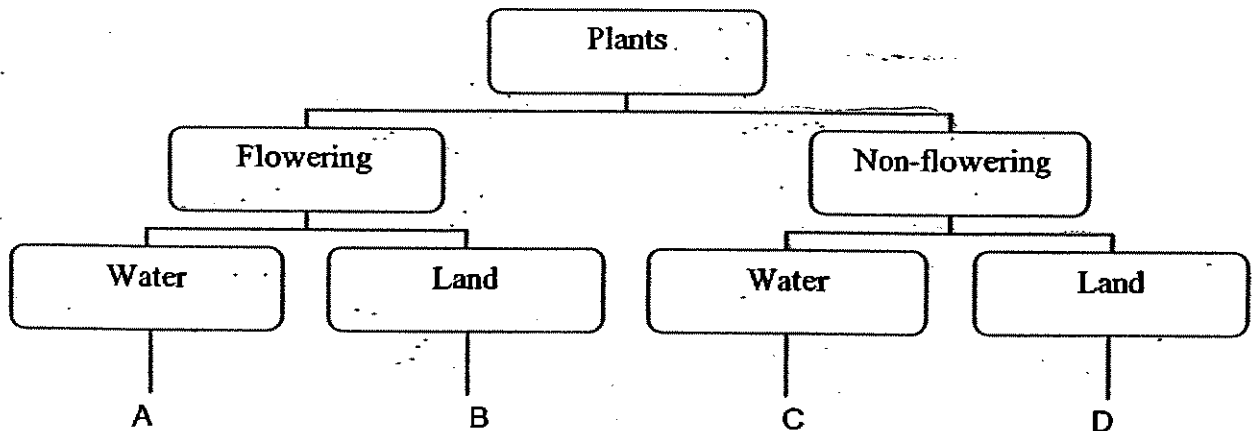
Which set of headings for Group A and Group B is correct?

	Group A	Group B
(1)	Living things	Non-living things
(2)	Things that can grow	Things that cannot grow
(3)	Things that were never alive	Things that were once alive
(4)	Things that can reproduce	Things that cannot reproduce

- 7 The following table describes two plants, Y and Z.

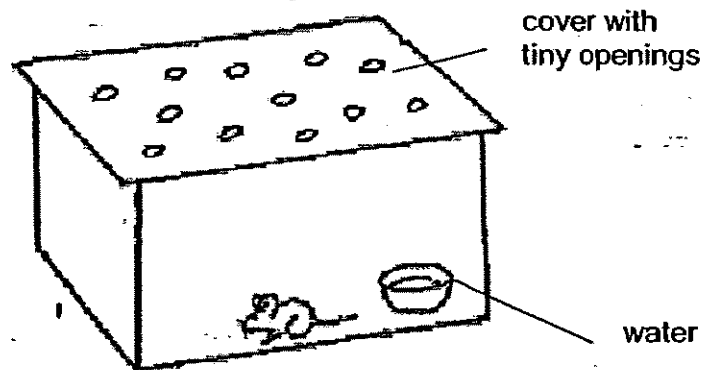
Characteristic	Plant Y	Plant Z
Does it bear flowers?	No	No
Does it grow on land?	Yes	No

From the information above, which group do Plants Y and Z most likely belong to in the following classification chart?



	Plant Y	Plant Z
(1)	A	C
(2)	B	D
(3)	C	B
(4)	D	C

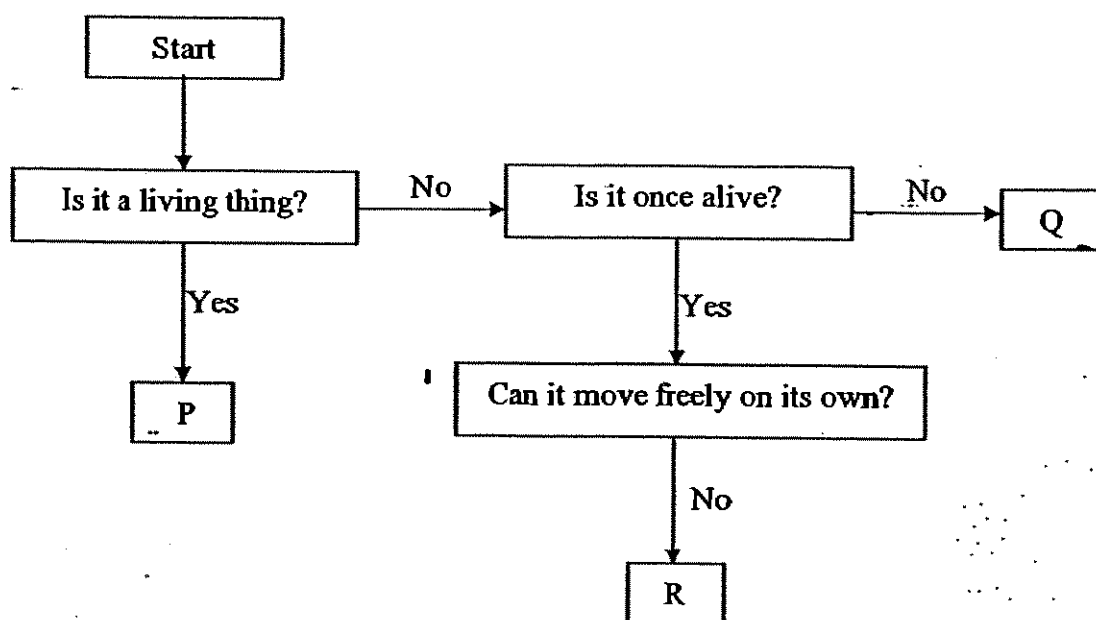
- 8 Matthew kept a mouse in a glass container as shown in the picture below. However, the mouse died after one week.



What is the most likely reason why the mouse did not survive?

- (1) There is no food for the mouse to eat.
- (2) There is not enough air for the mouse to breathe.
- (3) There is no space for the mouse to move around.
- (4) There is not enough water for the mouse to survive.

9 Study the flowchart below carefully.



Which of the following best represents P, Q and R?

	P	Q	R
(1)	Yeast	Plastic cup	Metal spoon
(2)	Amoeba	Glass jar	Wooden stool
(3)	Eraser	Iron nail	Tree
(4)	Gorilla	Paper	Rose plant

- 10 The table below shows 2 different groups of materials.

Man-made materials	Natural materials
Plastic	Clay
Glass	Cotton
Rubber	Metal

Which of the following materials has been classified wrongly?

- (1) Clay
- (2) Glass
- (3) Rubber
- (4) Cotton

- 11 The properties of 3 different objects were observed and recorded in the table below.

Properties		Wooden cork	Iron hammer	Eraser
A	It is made from natural materials.	Yes	Yes	Yes
B	It is flexible.	Yes	No	Yes
C	?	Yes	No	No

Which of the following best describes the missing property C?

- (1) It is hard.
- (2) It is elastic.
- (3) It is strong.
- (4) It floats.

- 12 Two similar pots of plants were used in an experiment. Plant A was placed near the window while Plant B was placed in a dark room. Both plants were watered with the same amount of water every day. After several days, Plant B withered while Plant A grew healthily. What can be concluded from the experiment?

- (1) Plants need air to survive.
- (2) Plants need water to survive.
- (3) Plants need sunlight to grow well.
- (4) Some plants do not respond to changes.

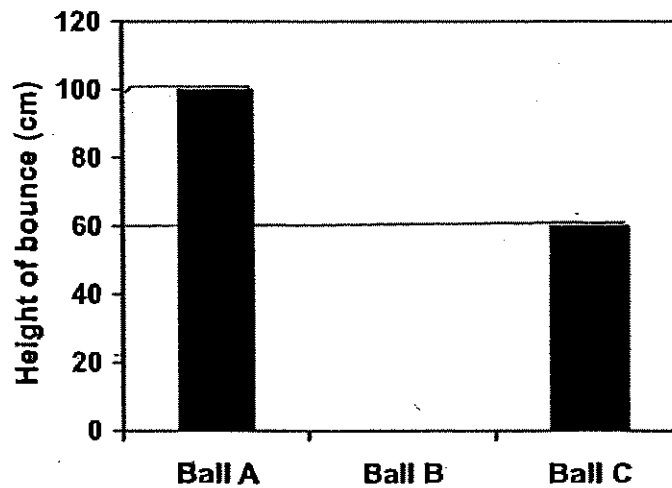
- 13 A boy tabulated the characteristics of the mushroom and the moss as shown below.

Characteristics		Mushroom	Moss
A	It is able to bear fruits.	Yes	No
B	It can make its own food.	No	Yes
C	It responds to changes.	No	Yes
D	It needs sunlight to grow well.	No	Yes

Which of the characteristics above were correctly tabulated?

- (1) A and B
- (2) B and C
- (3) B and D
- (4) C and D

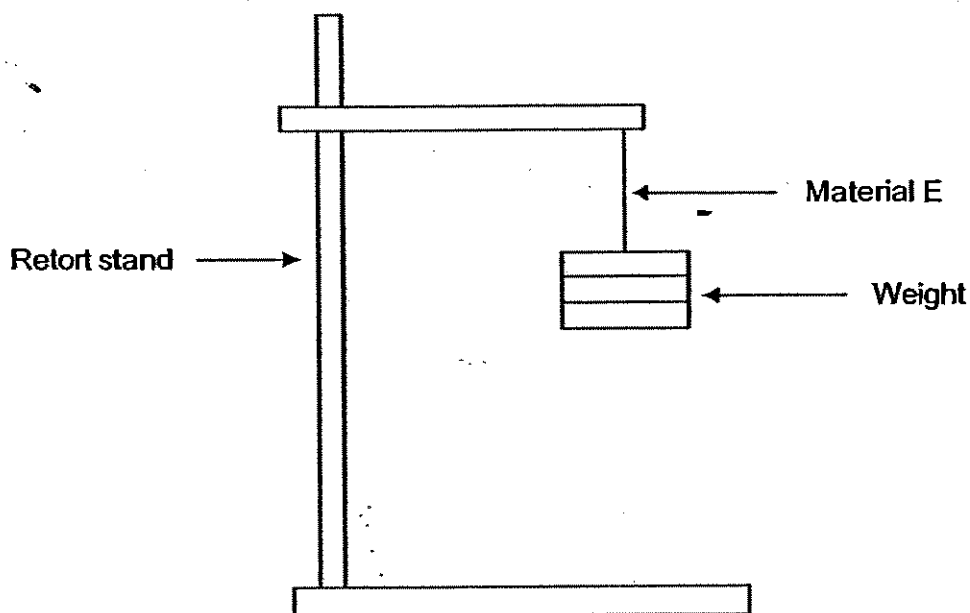
- 14 Ball A, Ball B and Ball C are similar in size but made of different materials. They were dropped from the same height and the height of their first bounce were recorded and shown in the bar graph below.



Which of the following are most likely to be the materials the balls are made of?

	Ball A	Ball B	Ball C
(1)	Plastic	Rubber	Plasticine
(2)	Plasticine	Plastic	Rubber
(3)	Plasticine	Rubber	Plastic
(4)	Rubber	Plasticine	Plastic

- 15 The setup below shows some weights tied to Material E. Material E could hold 3 weights before it broke.



The same experiment was repeated using Material F. The results of the 2 experiments are shown in the table below.

Material	Number of weights it could hold before it broke
E	3
F	7

What could be concluded from the experiment?

- (1) Material F is softer than Material E.
- (2) Material F is heavier than Material E.
- (3) Material F is stronger than Material E.
- (4) Material E is less flexible than Material F.

**ANGLO-CHINESE SCHOOL
(PRIMARY)**

MID-YEAR EXAMINATION 2007

SCIENCE

BOOKLET B

Name: _____ ()

Class: Primary 3 _____

Date: 10 May 2007

Duration of paper: 1 h 15 min

Parent's Signature

Booklet	Maximum marks	Marks obtained
A	30	
B	20	
Total	50	

**THIS BOOKLET CONTAINS 7 PAGES.
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

PART II

Read each question carefully and write your answer in the spaces provided. (20 marks)

- 16 Study the statements below carefully. Write "True" for every correct statement and "False" for every incorrect statement in the brackets provided. [2]

- (a) All insects have 1 pair of wings. ()
- (b) All birds lay eggs. ()
- (c) All fungi are harmful to man. ()
- (d) A plant without flowers is a non-flowering plant. ()

- 17 Look at the pictures below. Write down one similarity and one difference between the two animals based on your observations only. (Do not compare size and colour) [2]



Animal A

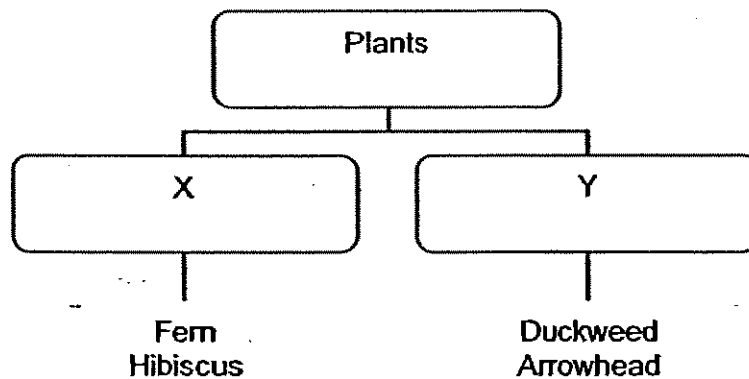


Animal B

Similarity : _____

Difference: _____

- 18 The classification chart below has missing headings X and Y.



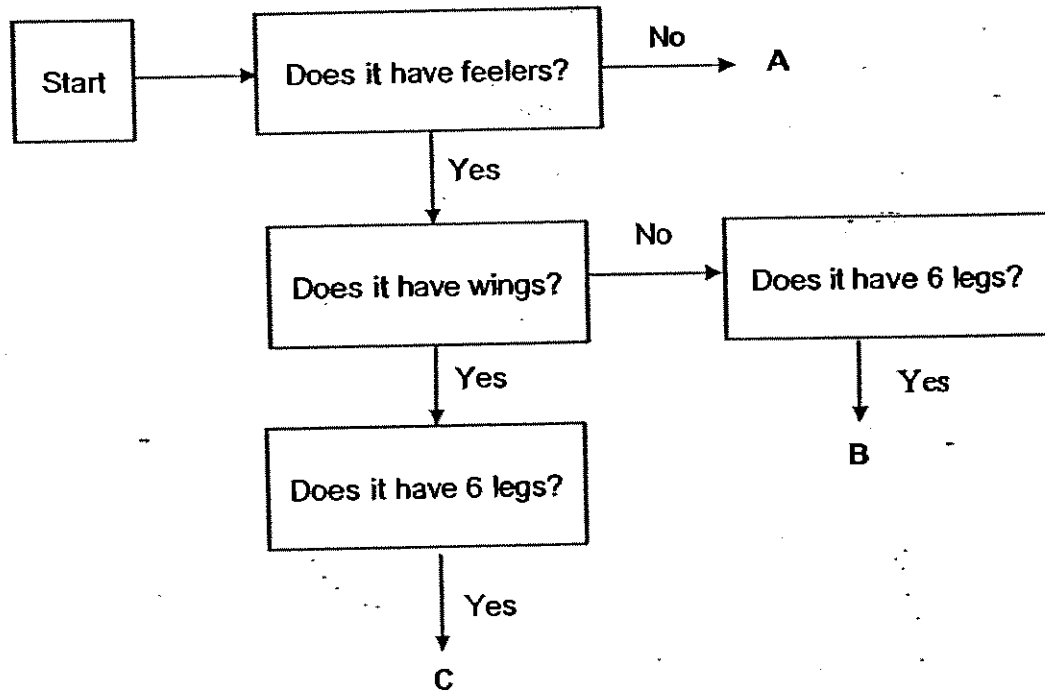
- (a) Give suitable headings for X and Y. [2]

X : _____

Y : _____

- (b) In which group (X or Y) can hydrilla be put into? [1]

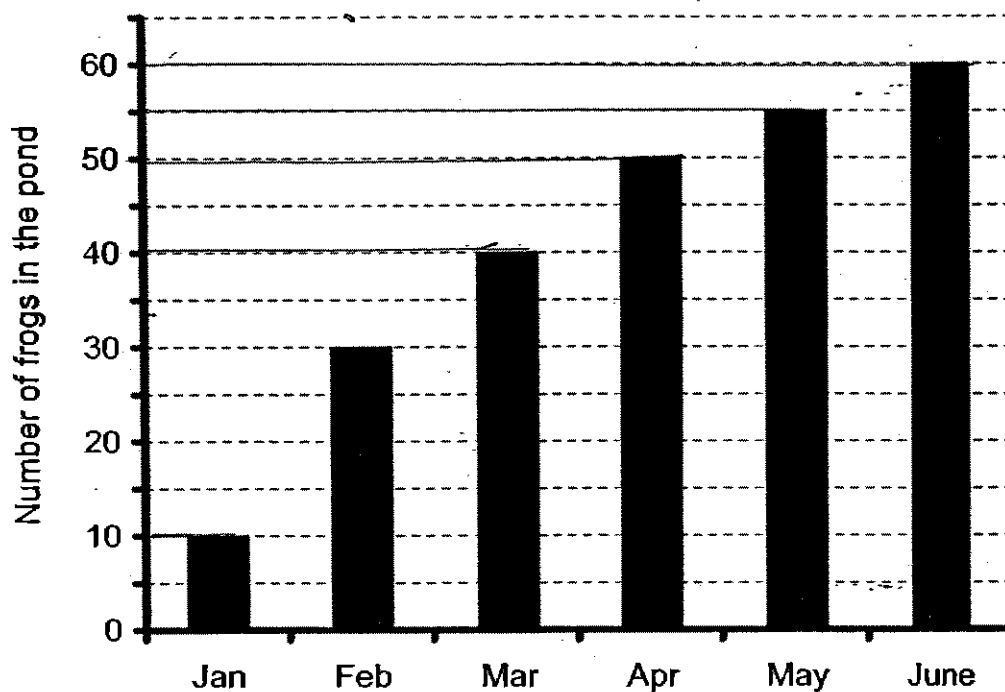
- 19 The flow chart below shows the characteristics of three animals, A, B and C.



Match the letters A, B and C correctly to the three animals given below and write Your answers on the space provided. Each letter can be used only once. [3]

- (i) Silverfish : _____
- (ii) Bee : _____
- (iii) Rabbit : _____

- 20 The bar graph below shows the number of frogs in an eco-pond from January to June. Study the graph carefully and answer the following questions.



- (a) Based on the above bar graph, complete the table by filling in the number of frogs for the given month. [2]

Month	March	April	May	June
Number of frogs				

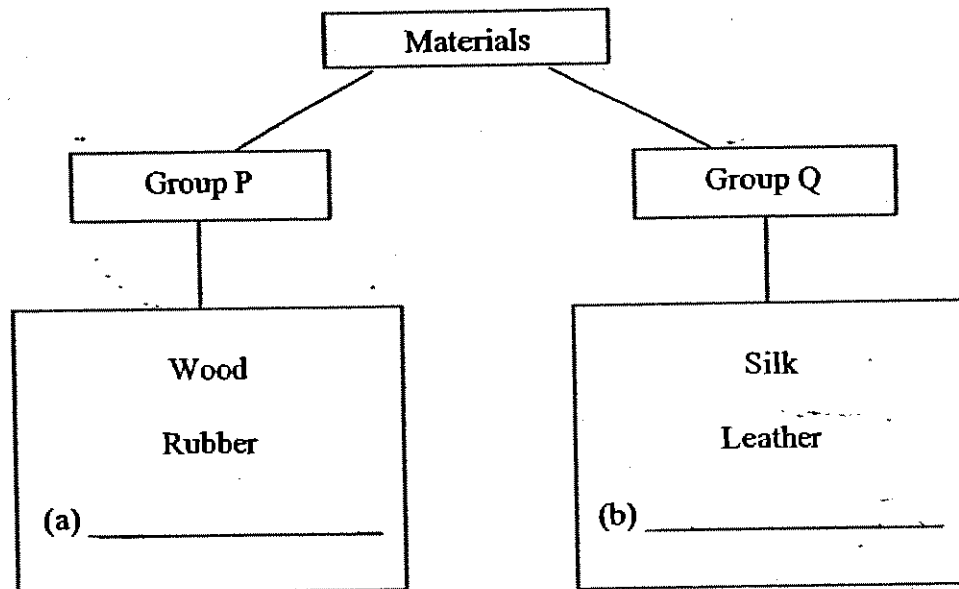
- (b) What is the increase in the number of frogs from March to April? [1]

- (c) Give a likely reason for the increase in the number of frogs from January to June, given that no other frogs were placed in the pond. [1]

21

Fill in the four blanks (a, b, c and d) using the helping words given. Each word can only be used once. [2]

Wool	Plants	Cotton	Animals
------	--------	--------	---------



The materials in Group P come from (c) _____ while

the materials in Group Q come from (d) _____

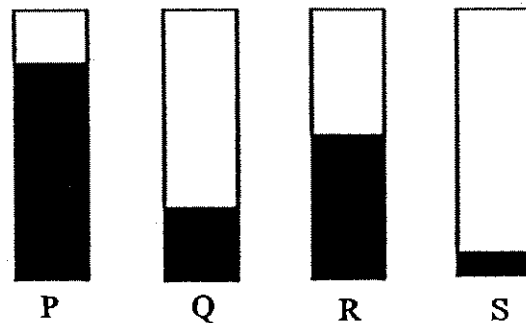
- 22 An experiment was carried out to compare the hardness of four materials, A, B, C and D. The observations were recorded in the table below. Ticks were used to indicate the presence of scratch marks on the materials.

Material	Presence of scratch marks made by		
	Metal rod	Wooden rod	Plastic rod
A	✓		
B	✓	✓	✓
C			
D	✓		✓

Arrange the four materials (A, B, C and D) in order of hardness, from the softest to the hardest. [2]

(Softest) _____ → _____ → _____ → _____ (Hardest)

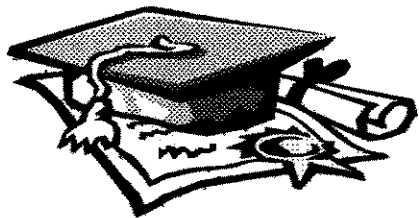
- 23 Four pieces of different materials P, Q, R and S were dipped into a container of black-coloured water. The diagram below shows the amount of water absorbed by the different materials after five minutes.



- (a) Which material (P, Q, R or S) is most suitable for making a towel? [1]

- (b) Give a reason for your answer in (a). [1]

END OF PAPER



ANSWER SHEET

A C S PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (1)

- 1.3
2.1
3.1
4.4
5.3
6.3
7.4
8.1
9.2
10. 3
11. 4
12. 3
13. 3
14. 4
15. 3
16. a) F
b) T
c) F
d) F
- 21) a) cotton
b) wool
c) plants
d) Animals
- 22) B, D, A, C
- 23) a) P
b) It absorbs the most water.
- 17) Similarity: They have wings.
Difference: Animal A has six legs but Animal B has two legs.
- 18) a) X: Land plants Y: water plants
b) Y
- 19) i) B ii) C iii) A
- 20) a) 40, 50, 55, 60
b) The number of frogs increase from March to April is ten.
c) The Frogs reproduce.
- end---

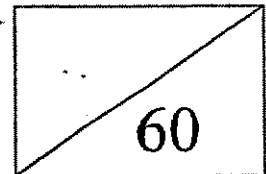
**KONG HWA SCHOOL
SEMESTRAL ASSESSMENT ONE 2007
SCIENCE
PRIMARY 3**

Name: _____ (.)

Class: Primary 3/ _____

Date : 11 May 2007

Marks



Parent's Signature: _____

**BOOKLET A
30 MULTIPLE CHOICE QUESTIONS
60 MARKS**

Total time for Booklets A and B: 1 h 30 mins

DO NOT LOOK AT THE QUESTIONS UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

DO NOT WASTE TIME. IF A QUESTION IS DIFFICULT FOR YOU, GO ON TO THE NEXT ONE.

REMEMBER TO ANSWER ALL QUESTIONS.

PART I (60 MARKS)

Read the following questions carefully. Choose the best answer (1, 2, 3 or 4) and shade the corresponding oval on the Optical Answer Sheet (OAS).

1. Which of the following objects is made from something which was once alive?

- 1) a plastic boat
- 2) a paper ball
- 3) a glass bowl
- 4) a silver spoon

()

2. Which of these is not an example of growth?

- 1) A bud becomes a flower.
- 2) A puppy becomes a dog.
- 3) A pupa becomes a butterfly.
- 4) A deflated ball becomes a round ball.

()

3. Study the following descriptions about Animal X.

- ♥ Animal X breathes through gills.
- ♥ Animal X reproduces by laying eggs.
- ♥ The body of Animal X is covered with scales.

Which one of the following animal could X be?

- 1) Crocodile
- 2) Mouse
- 3) Tilapia
- 4) Eagle

()

4. Which of the following animals reproduce by laying eggs?

- A) Toad
- B) Turtle
- C) Giraffe
- D) Crocodile
- E) Kingfisher

- 1) A, B, C & E
- 2) A, C, D & E
- 3) A, B, D & E
- 4) B, C, D & E

()

5. Non-living things _____.

- 1) can have young
- 2) need air, water and food
- 3) can grow and reproduce
- 4) do not need air, water and food

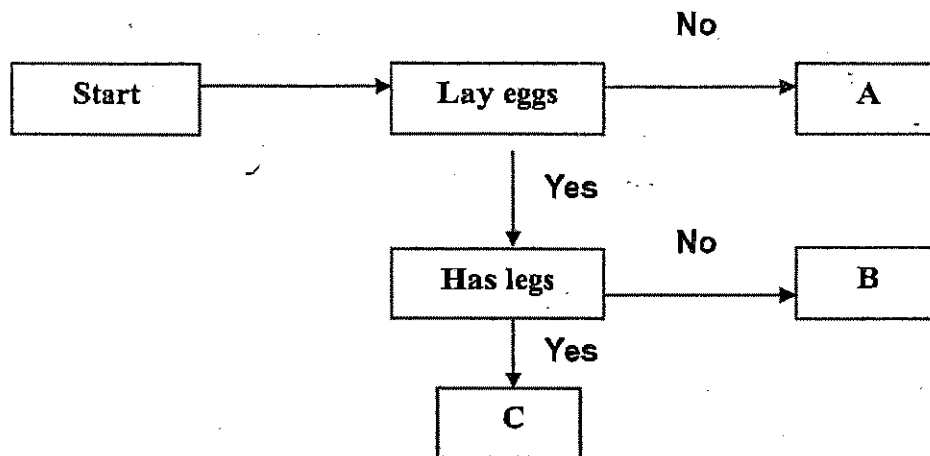
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6. Which one of the following pairs of animals has the same type of body covering?

- 1) snake and sea lion
- 2) hamster and turtle
- 3) giraffe and lobster
- 4) kingfisher and swallow

()

7. Study the flow chart below.



What could Animal B be?

- 1) Cow
- 2) Frog
- 3) Snake
- 4) Ostrich

()

8. Johan tried to hit a fly that was resting on a plate of food on the table.

Which characteristic of living things was observed on the fly?

- 1) Living things die.
- 2) Living things grow.
- 3) Living things reproduce.
- 4) Living things respond to changes.

()

9. The table below shows the characteristics of four animals, A, B, C and D.

Animal	Number of legs				Feelers	Wings
	2	4	6	8		
A				√	x	x
B			√		√	√
C		√			x	x
D	√				x	√

Which animal is most likely to be an insect?

- 1) A
- 2) B
- 3) C
- 4) D

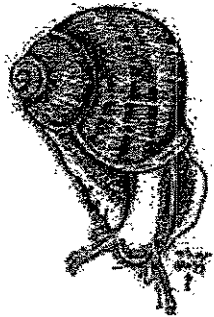
()

10. Which of the following statements is true?

- 1) All insects can fly.
- 2) All insects have wings.
- 3) All insect breathe through their nostrils.
- 4) An insect's body is made up of three parts.

()

11. Which one of the characteristics can be used to group the animals below together?



Snail



Squirrel



Grasshopper

- 1) All the three animals have six legs.
- 2) All the three animals eat only plants.
- 3) All the three animals give birth to their young.
- 4) All the three animals live in the pond.

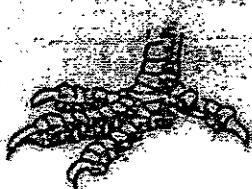
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12. Which of the following birds cannot fly?

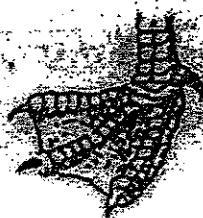
- 1) crow
- 2) swallow
- 3) Ostrich
- 4) kingfisher

()

13. Mary saw the feet of some animals. Which of them helps the animal to swim well?



(1)



(2)



(3)



(4)

()

14. Which one of the following pairs describes both living and non-living things?

	Living things	Non-living things
A)	It becomes a butterfly.	It lays an egg.
B)	It turns to face the sun.	It moves when operated by a battery.
C)	It moves away when there is fire	It becomes a tree.
D)	It produces live young.	It does not grow

- 1) A and C only
- 2) A and D only
- 3) B and C only
- 4) B and D only

()

15. The tiger, chicken, cat and dragonfly are similar because they

_____.

- 1) live on land
- 2) eat only animals
- 3) make their own food
- 4) protect their bodies with hair

()

16. Which of the characteristics can be used to group the animals below?



- 1) Animals that lay eggs.
- 2) Animals that cannot fly.
- 3) Animals that have feelers.
- 4) Animals that have scales on their bodies.

()

17. Plants which do not bear flowers have to depend on _____ to reproduce and have more young plants of the same type.

- 1) seeds
- 2) spores
- 3) sunlight
- 4) other plants

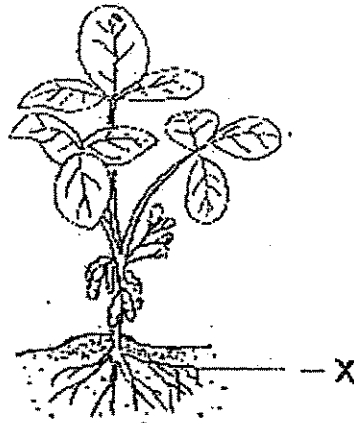
()

18. Micro-organisms are living things which _____.

- 1) can only be found in plants
- 2) are harmful to animals only
- 3) cannot be found in the human body
- 4) can only be seen with the help of a microscope

()

19. Plants have different types of roots. They are generally used by the plants to



- A: absorb water and minerals
B: hold itself firmly to the ground
C: get rid of waste materials and excess food

- 1) A and B only
- 2) B and C only
- 3) A and C only
- 4) A, B and C only

()

20. Which of the following statements is true of plants?

- 1) Some plants have weak stems.
- 2) All flowering plants are poisonous.
- 3) Flowering plants grow on land only.
- 4) A flowering plant bears flowers at all times.

()

21. Bella described Plant Y in the following way:

A: It has flowers.

B: It can stand upright.

C: It has a thin woody stem.

- 1) grass
- 2) rose
- 3) mushroom
- 4) maidenhair fern

()

22. Which one of the following groups consists of only micro-organisms?

- 1) ferns, mould
- 2) moss, yeast
- 3) bacteria, yeast
- 4) toadstool, yeast

()

23. Which one of the following can make its own food?

- 1) Mould
- 2) Mushroom
- 3) Bird Nest Fern
- 4) Bracket Fungus

()

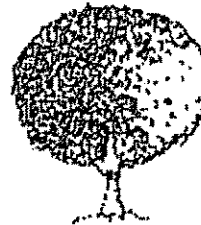
24. Trees come in various shapes. Look at the different trees shown below. Can you match them correctly to their shapes?



Tree A



Tree B



Tree C



Tree D

	Tree A	Tree B	Tree C	Tree D
1)	Cone Shape	Umbrella Shape	Dome Shape	Fan Shape
2)	Dome Shape	Fan Shape	Umbrella Shape	Round Shape
3)	Round Shape	Dome Shape	Fan Shape	Cone Shape
4)	Fan Shape	Umbrella Shape	Round Shape	Dome Shape

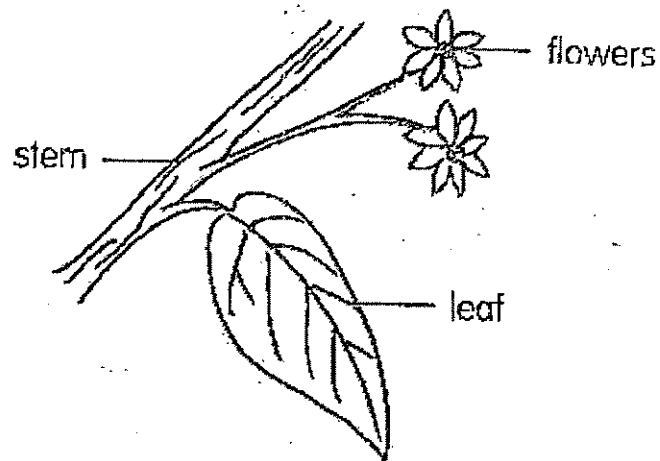
()

25. Which one of the following two items is grouped correctly?

	Hard and Smooth	Light and Soft
1)	Mirror	Cotton wool
2)	Pillow	Feather
3)	Marble	Knife
4)	cloth	Paper

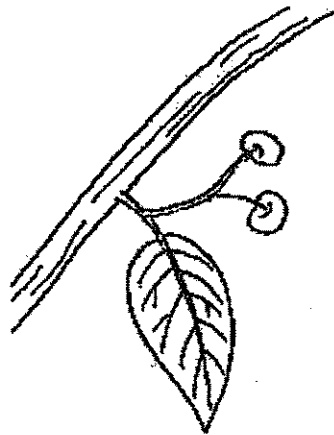
()

26.



Which one of the following develops from the flowers shown in the picture above?

1)



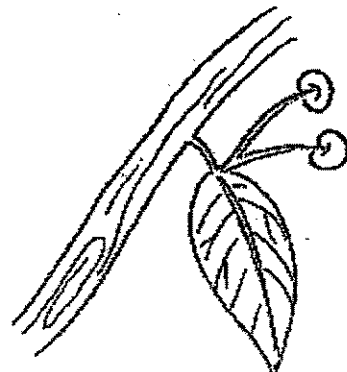
2)



3) ~~2~~



4) ~~3~~



()

27. Materials come from different sources. Which material is correctly matched with its source?

	Material	Where it comes from
1)	silk	plants
2)	leather	plants
3)	cotton	animals
4)	wool	animals

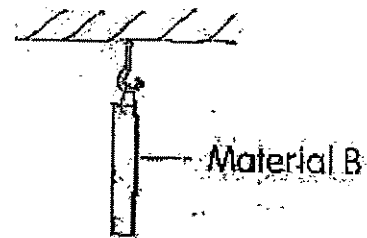
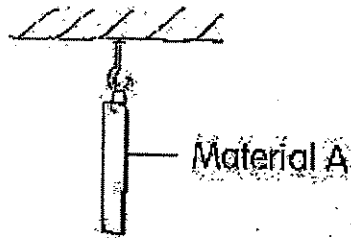
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28. Bricks and stones are used to build houses and roads respectively, because these materials are _____.

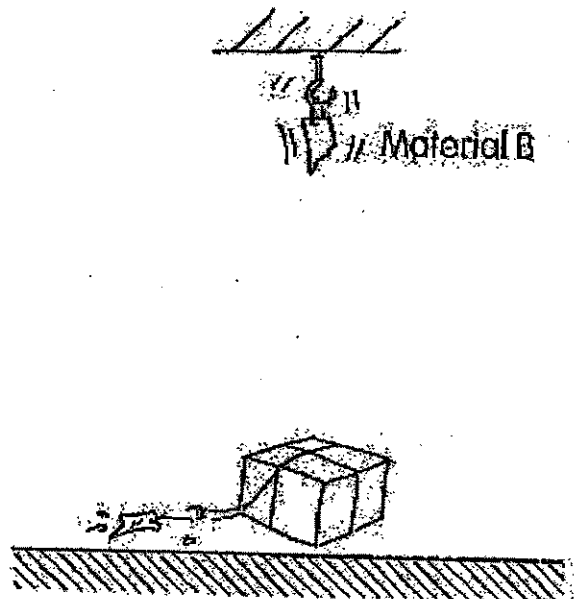
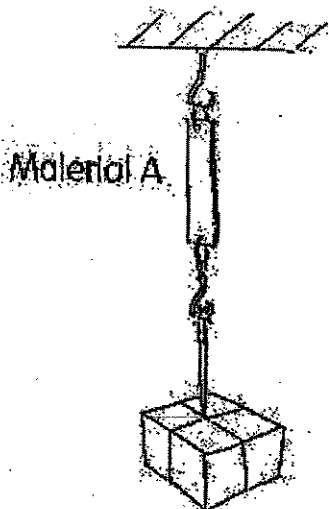
- 1) heavy and hard
- 2) hard and strong
- 3) heavy and soft
- 4) light and tough

()

29. A strip of Material A and Material B were each hung on a hook.



Two boxes of the same weight were hung onto the strips. The results were shown below.

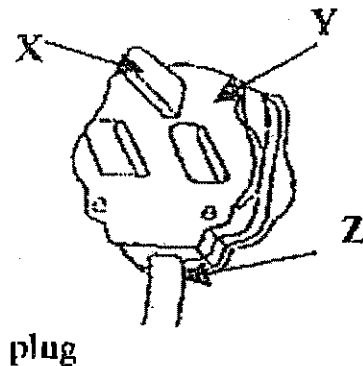


From this experiment, we can say that

- 1) Material A is lighter than Material B.
- 2) Material A is stronger than Material B.
- 3) Material B is softer than Material A.
- 4) Material B is less flexible than Material A.

()

30. Study the picture below.



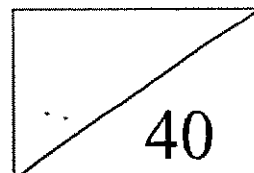
Which one of the following correctly shows the materials used to make the parts X, Y and Z?

	X	Y	Z
1)	rubber	plastic	metal
2)	metal	plastic	rubber
3)	metal	rubber	plastic
4)	rubber	metal	plastic

()

**KONG HWA SCHOOL
SEMESTRAL ASSESSMENT ONE 2007
SCIENCE
PRIMARY 3**

Marks



Name: _____ ()

Class: Primary 3/ _____

Date : 11 May 2007

Parent's Signature: _____

**BOOKLET B
OPEN ENDED QUESTIONS
40 MARKS**

Total time for Booklets A and B: 1 h 30 mins

DO NOT LOOK AT THE QUESTIONS UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
DO NOT WASTE TIME. IF A QUESTION IS DIFFICULT FOR YOU, GO ON TO
THE NEXT ONE.
REMEMBER TO ANSWER ALL QUESTIONS.

PART II (40 MARKS)

Read the following questions carefully. Write your answers in the space provided.

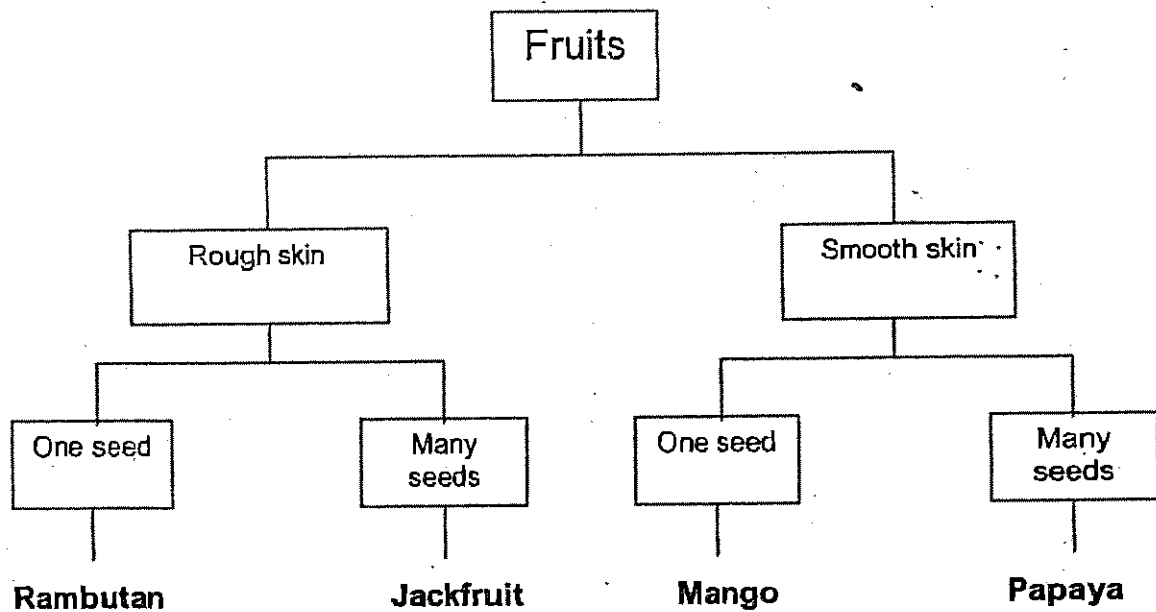
31.



a) What happens to mimosa plant when touched? (1 mark)

b) What does this tell us about living things? (1 mark)

32. Study the classification table below.



Study the classification table carefully.

i) Describe the characteristics of the papaya based on the classification table. (1 mark)

ii) State one way in which the rambutan and jackfruit are similar. (1 mark)

iii) Why are seeds important to the plant? (1 mark)

37. Different animals have different outer coverings. Write the names of the animals below in the correct groups.

Peacock	turkey	cobra
Crocodile	lobster	turtle

Outer coverings:

Animals with feathers:

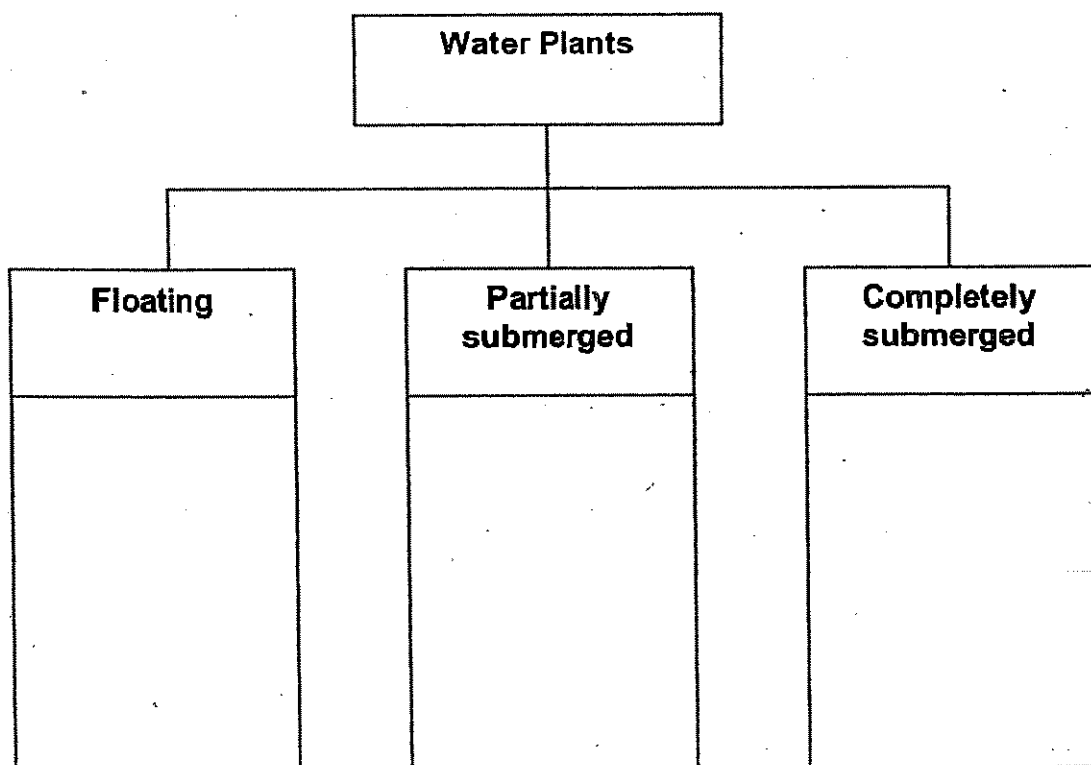
Animals with shells:

Animals with scales:

(3 marks)

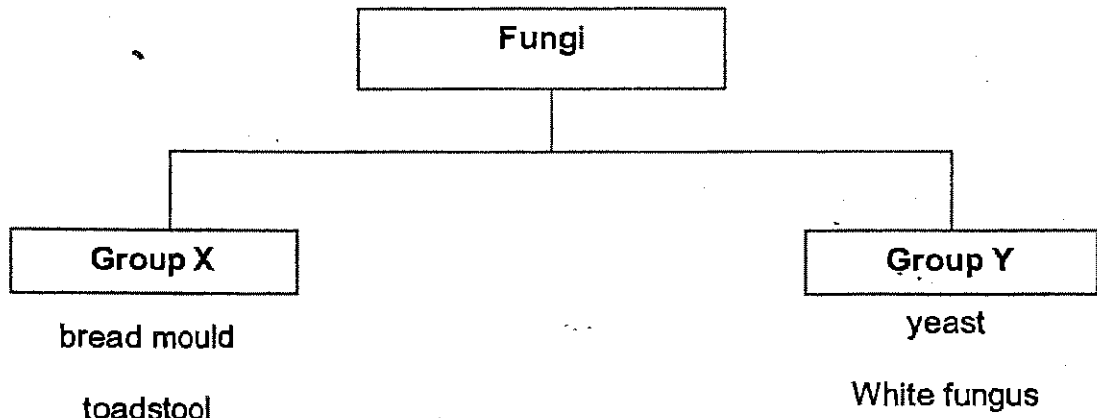
38. Fill in the classification table below with the following plants.

Water hyacinth	water lettuce	water lily
Cattail	hydrilla	duckweed



(3 marks)

39.



a) How are the fungi grouped in the above table? (2 mark)

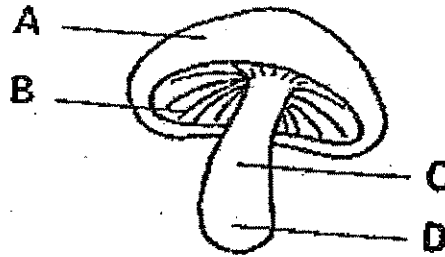
i) Group X: _____

ii) Group Y: _____

b) Under which group would you classify 'button mushroom'? (1 mark)

40. Why do fungi feed on the remains of dead plants and animals for food? (1 mark)

41.



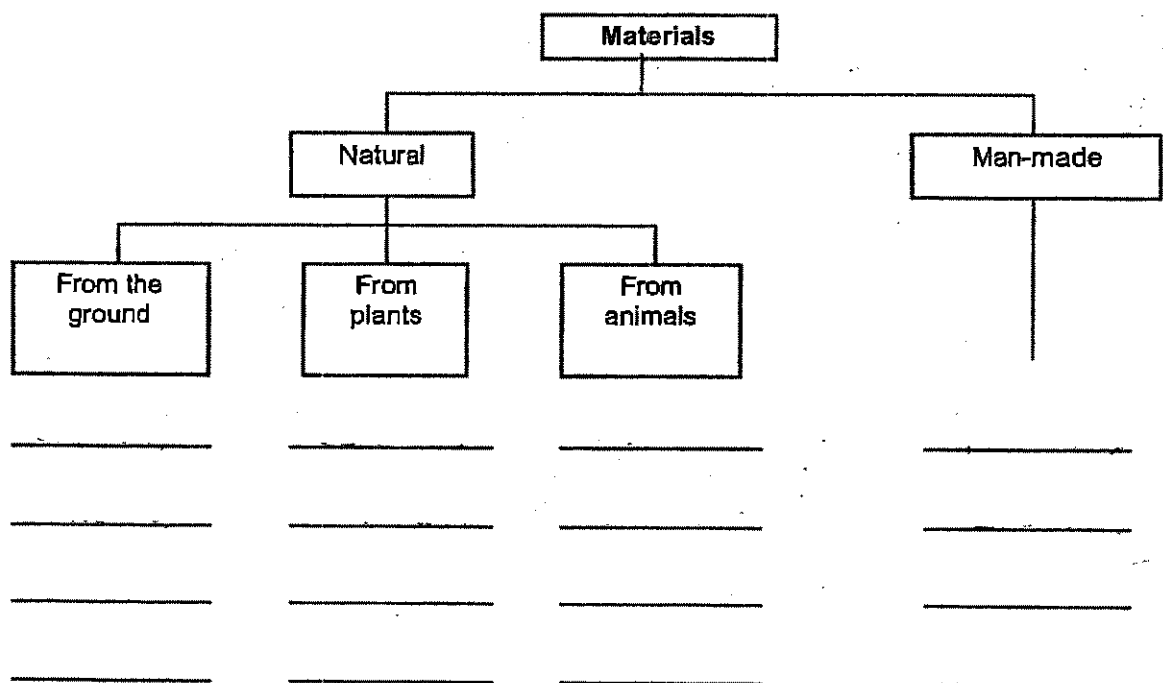
a) In which part of the mushroom A, B, C or D are the gills? (1 mark)

b) What are found in the gills of the mushroom? (1 mark)

c) Why are they important to the mushroom?(1 mark)

42. Complete the classification table below using the words given in the box.
(4marks)

Iron	rubber	cotton	silk
Gold	plastic	glass	wool



43. Isabella conducted several tests on materials A, B and C and recorded the results below.

	Material A	Material B	Material C
Is it flexible?	No	Yes	Yes
Does it stretch?	No	No	Yes
Does it break when dropped?	Yes	No	No
Is it waterproof?	Yes	Yes	No

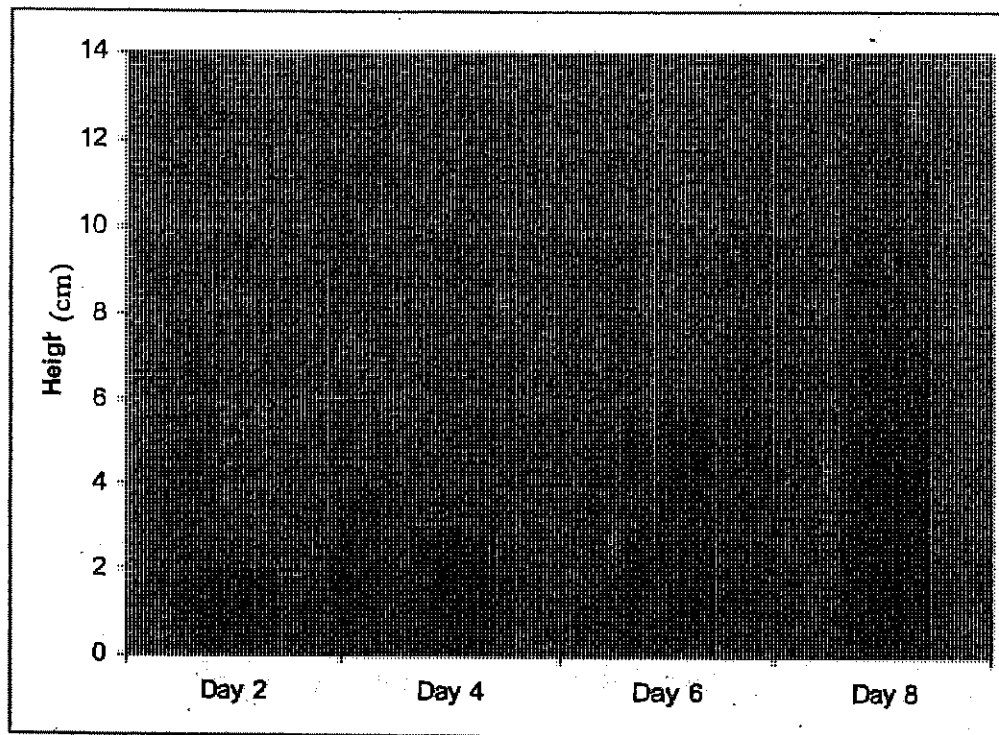
- a) Which material would you use to make a T-shirt?(1mark)

- b) Why would you use the material chosen in (a)?(1mark)

- c) Isabella was given a piece of paper and she carried out the same tests. Complete the table to predict the correct results of the test. Write 'Yes' or 'No' in the boxes. (2marks)

	A piece of paper
Is it flexible?	
Does it stretch?	
Does it break when dropped?	
Is it waterproof?	

44. The graph below shows the height of a young plant which was recorded every 2 days over a period of 8 days.

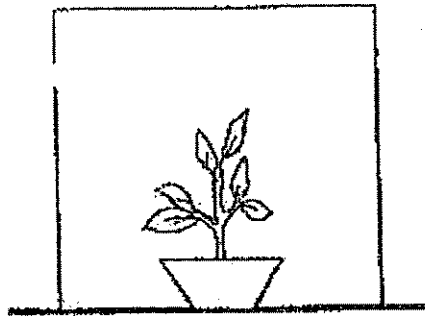


- a) What was the difference in the height of the plant from Day 4 to Day 8?
(1mark)

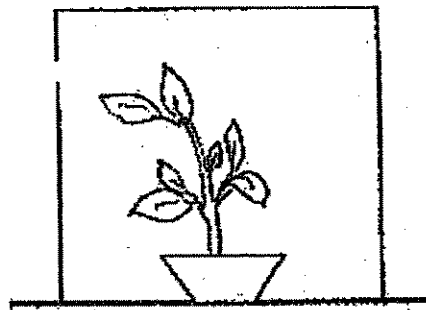
- b) The graph tells us that living things can _____

_____. (1mark)

45. Rachel kept a healthy pot of plant under a wooden box with a small opening for a few days.



After a few days, ^{she} he found the plant growing towards the hole.



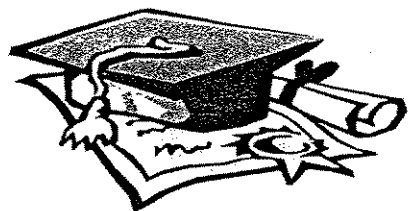
a)
c)

Why did the plant bend towards the opening?(1mark)

b)
d)

WITHOUT TAKING THE PLANT OUT OF THE BOX, how would you make it grow upright again? (2marks)

End of paper



ANSWER SHEET

Kong Hwa Pri 3 SA1/2007 SCIENCE

- | | | | | | |
|------|------|------|------|------|------|
| 1)2 | 2)4 | 3)3 | 4)3 | 5)4 | 6)4 |
| 7)3 | 8)4 | 9)2 | 10)4 | 11)2 | 12)3 |
| 13)2 | 14)4 | 15)1 | 16)1 | 17)2 | 18)4 |
| 19)1 | 20)1 | 21)2 | 22)3 | 23)3 | 24)4 |
| 25)1 | 26)3 | 27)4 | 28)2 | 29)2 | 30)2 |

31)a. It will close its leaf b. Living things respond to changes around them.

32)i. The papaya has a smooth skin and has many seeds.

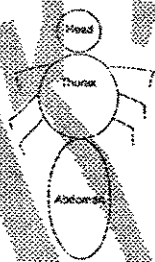
32)ii. Both have rough skin.

iii. To help the plant reproduce.

33)a. They are grouped according to how they move.

33)b. The eagle belongs to Group R.

34)a.



34)b.i. Insects have three body parts

34)b.ii. Insects have feelers.

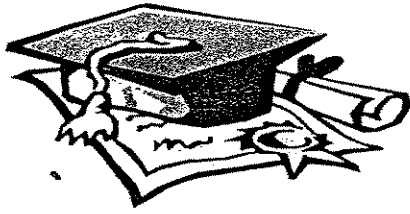
35)W Birds X gills Y insects Z hair

36)a. eye b. fin c. gill cover d. scales

37)Animals with feathers: Peacock, Turkey

Animals with shells: lobster, turtle

Animals with scales: Crocodile, cobra



ANSWER SHEET

Kong Hwa Pri 3 SA1/2007 SCIENCE

38) Floating: duckweed, water lettuce, water hyacinth

Partially submerged: Cattail, water lily

Completely submerged: hydrilla.

39)a.i. Group X: inedible Group Y: Edible

39)b. I would group "button mushroom" in Group Y.

40) Fungi do not have chlorophyll so it feeds on dead plants and animals for food.

41)a. In part B. b) Spores are found in the gills of the mushroom.

41) Spores help the mushroom to reproduce.

42) From the ground: Gold, glass, Iron

From plants: cotton, rubber

From animals: silk wool

Man-made: plastic

43)a. Material C b. It will absorb sweat well.

43). flexible Yes, stretch No, break no, waterproof No

44)a. 9cm b. grow

45)a. It grows towards the sunlight. B. I would cut an opening at the top of the box and cover up the hole at the side of the box.



AI TONG SCHOOL

2007 CONTINUAL ASSESSMENT (2)

PRIMARY THREE SCIENCE

DURATION : 1hr 30 min

DATE: 30th August 2007

INSTRUCTIONS

Do not open the booklet until you are told to do so.

Follow all instructions.

Answer all questions.

Name : _____ ()

Class : Primary _____

Parent's Signature : _____

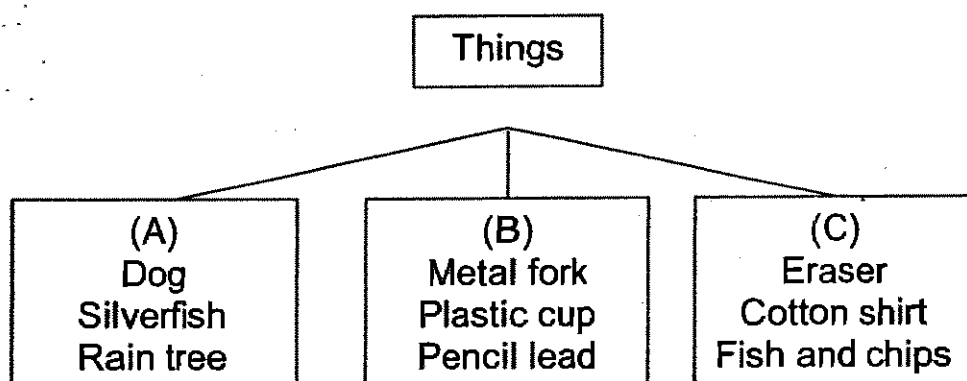
Date : _____

MARKS	100
--------------	------------

Section A (50 marks)

Choose the correct answer and shade its number 1, 2, 3 and 4 in the OAS provided.

1. Study the table below carefully.



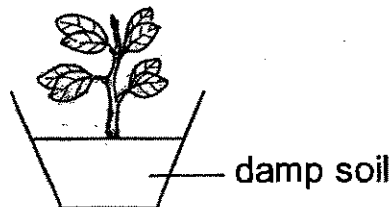
Which one of the following headings best represent A, B and C respectively?

	A	B	C
(1)	Living things	Non-living things	Things once alive
(2)	Living things	Things once alive	Non-living things
(3)	Things once alive	Living things	Non-living things
(4)	Non-living things	Things once alive	Living things

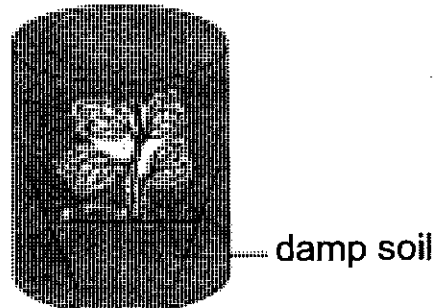
2. Which one of the following **does not** show that plants can move by themselves?

- (1) Leaves sway in the breeze.
- (2) The sunflower turns to face the sun.
- (3) Leaves of the rain tree fold up at night.
- (4) A mimosa plant closes its leaves when touched.

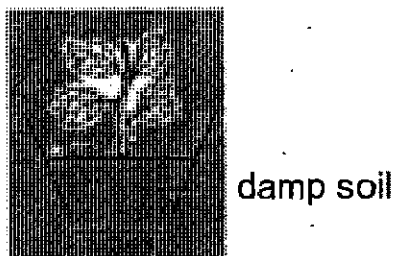
3. A boy carried out an experiment on balsam plants. He set up his experiment as shown below.



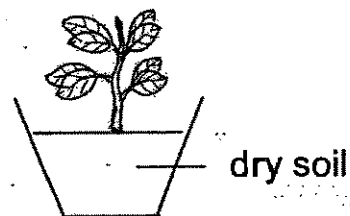
Set-up A
put in the sun



Set-up B
put in a black,
covered box



Set-up C
put in the shade



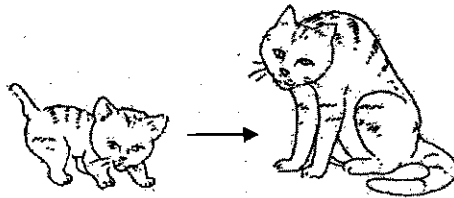
Set-up D
put in the sun

In which setup will the balsam plant grow most healthily?

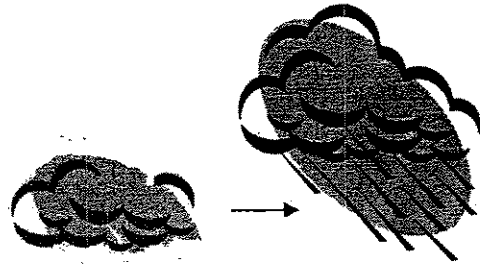
- (1) Set-up A
- (2) Set-up B
- (3) Set-up C
- (4) Set-up D

4. Which one of the following shows that living things can grow in size?

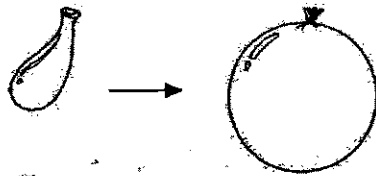
(A)



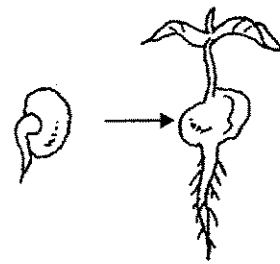
(B)



(C)



(D)



- (1) A and C only
- (2) A and D only
- (3) B, C and D only
- (4) A, B, C and D

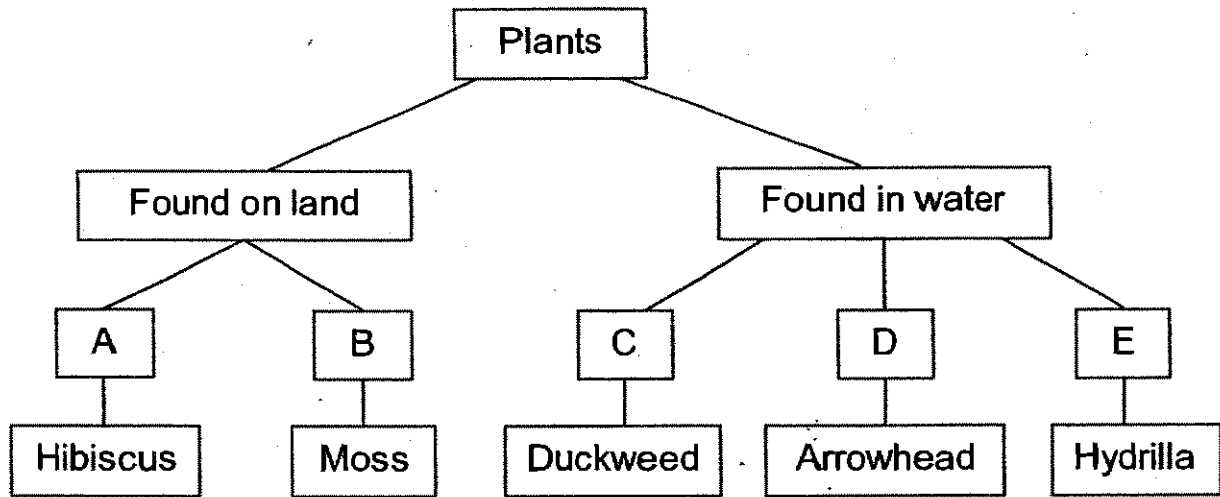
5. Lynn observes the following characteristics of an animal.

- A: Whether it can fly
- B: The number of legs it has
- C: The number of eyes it has
- D: The number of body parts it has

From which of the above characteristics would she be able to tell that the animal is an insect?

- (1) A and B only
- (2) B and C only
- (3) B and D only
- (4) A, B and C only

6. Study the table carefully.



A suitable heading for A would be _____.

- (1) Water plant
- (2) Flowering plant
- (3) Poisonous plant
- (4) Non-flowering plant

7. Siti matched some animals to their outer coverings as shown below.

Animal	Outer covering
Eagle	Feathers
Snake	Scales
Seahorse	Shell
Polar bear	Fur

Which animal has the wrong outer covering matched to it?

- (1) Eagle
- (2) Snake
- (3) Seahorse
- (4) Polar bear

8. Pick out the shrub from the different plants shown below.

(1)



cactus plant

(2)



hibiscus plant

(3)



money plant

(4)



flame of the forest

9. Four pupils made the following statements about fungi.

Ann : Some fungi are edible.

Ben : Fungi can make their own food.

Cindy : Fungi can cause food to decay.

Daniel : Fungi are of different shapes and sizes.

Who has made a **wrong** statement?

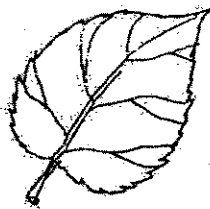
(1) Ann

(2) Ben

(3) Cindy

(4) Daniel

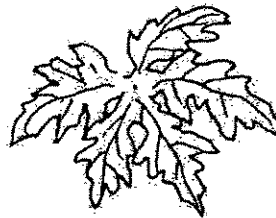
10. Study the 4 leaves shown below.



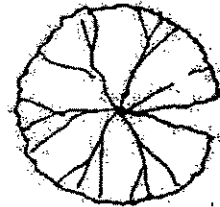
A



B



C



D

Which of the following descriptions matches the leaves above?

	A	B	C	D
(1)	palm-shaped	oval	heart-shaped	round
(2)	heart-shaped	round	palm-shaped	oval
(3)	palm-shaped	round	heart-shaped	oval
(4)	heart-shaped	oval	palm-shaped	round

11. Which of the following objects is made of only one material?

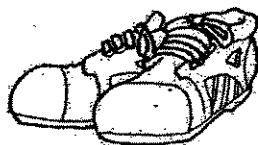
(1)



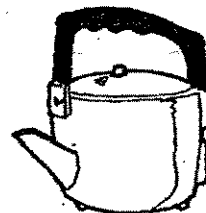
(2)



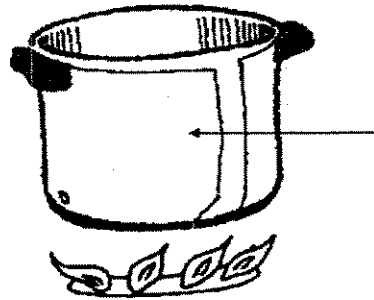
(3)



(4)



12. Which one of the following materials would not be a suitable choice for making the part marked by the arrow?



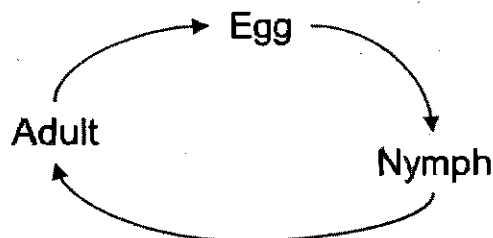
- (1) Steel
 - (2) Glass
 - (3) Wood
 - (4) Ceramics
13. Fred made an object which had the following properties:

- light
- waterproof
- soft and flexible

Which group of objects has properties similar to Fred's object?

- (1) fur coat , marble
- (2) raincoat, plastic bag
- (3) wine glass, cooking pot
- (4) rubber band, newspaper

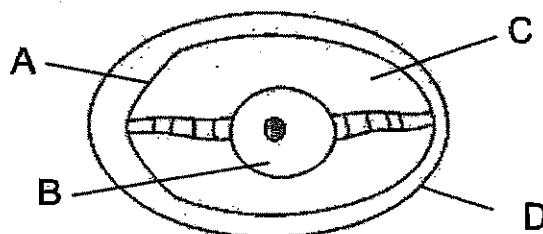
14. The diagram shows the life cycle of an insect.



Which one of the following animals has a life cycle similar to the one shown above?

- (1) Moth
- (2) Chicken
- (3) Cockroach
- (4) Mealworm beetle

15. The diagram shows the different parts of a fertilized chicken egg.



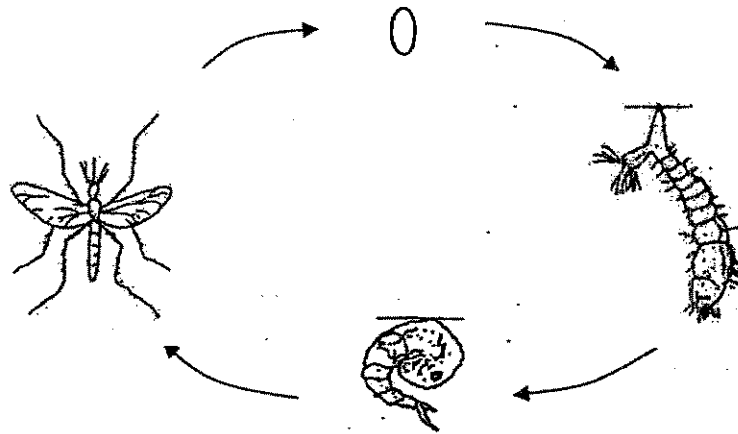
Which one of the following represents Parts A, B, C and D correctly?

	A	B	C	D
(1)	Egg shell	Egg white	Egg yolk	Membrane
(2)	Membrane	Egg white	Egg yolk	Egg shell
(3)	Membrane	Egg yolk	Egg white	Egg shell
(4)	Egg shell	Egg yolk	Egg white	Membrane

16. Which one of the following plants produce seeds that will grow into young plants?

- (1) Potato plant
- (2) Papaya tree
- (3) Bamboo plant
- (4) Maidenhair fern

17. The life cycle of a mosquito is shown below.



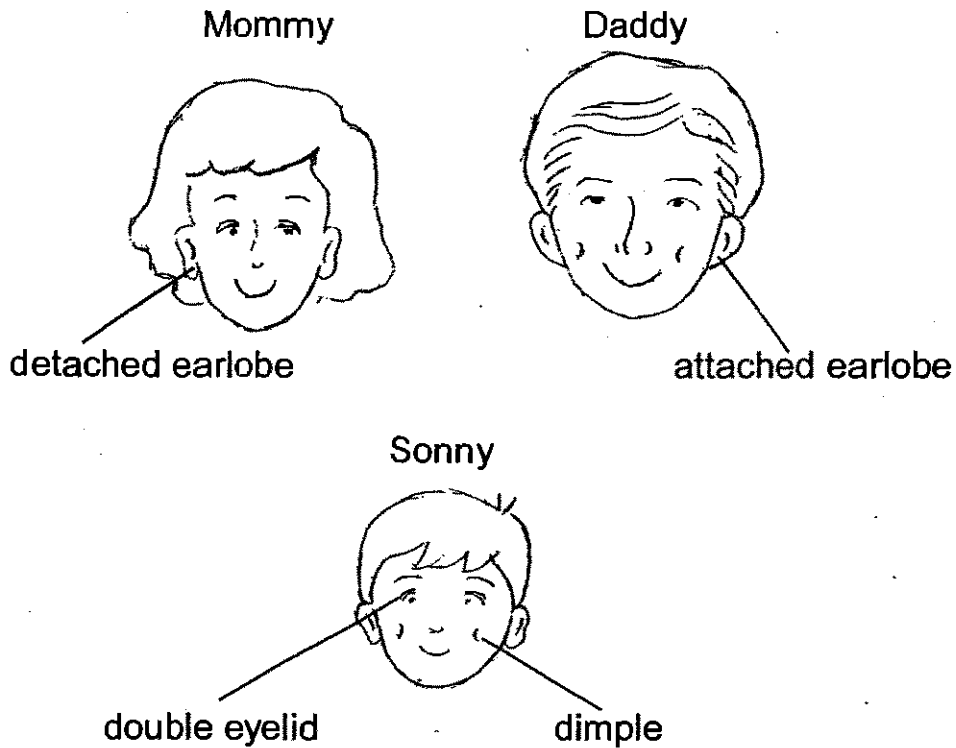
At which stage of its life cycle is the mosquito harmful to humans?

- (1) Egg
- (2) Larva
- (3) Pupa
- (4) Adult

18. Which one of the following traits make a person unique?

- (1) Height
- (2) Weight
- (3) Fingerprints
- (4) Left-handedness

19. The pictures below show two adults and their child.



Which one of the following statements about the pictures is **true**?

- (1) Sonny inherits Mommy's dimples.
- (2) Daddy passes on his double eyelids to Sonny.
- (3) Sonny inherits Daddy's attached earlobes.
- (4) Mommy passes on her detached earlobes to Sonny.

20. Old Uncle Tom is blind. He is unable to tell the _____ of an object.

- (1) size
- (2) shape
- (3) colour
- (4) texture

21. We use our sense organs to _____.

- A: help us function as systems
- B: protect ourselves from danger
- C: gather information about our surroundings
- D: help us respond to changes in our environment

- (1) A and B only
- (2) C and D only
- (3) B, C and D only
- (4) A, B, C and D

22. Moles bump their heads against the sides of the dark tunnels to warn other moles to stay out of the way.
Which sense are the moles using?

- (1) Sight
- (2) Smell
- (3) Touch
- (4) Hearing

23. Nancy made these observations about an orange:

touch
• small and round
• quite light
• pleasant smell

touch
• dimply and hard skin
• sweet and juicy flesh
• a few seeds

How many senses did Nancy use in the observation?

- (1) Three
- (2) Four
- (3) Five
- (4) Six

24. Which sense organ does not match what it can sense?

	Sense Organ	Sense
(1)	Ears	Hearing
(2)	Skin	Touch
(3)	Mouth	Taste
(4)	Eyes	Sight

25. Which of the following sense organs can be involved in identifying a chilli from a durian without cutting them up?

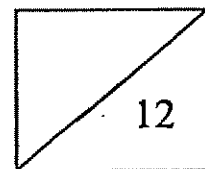
- (1) Eyes, nose and skin only
- (2) Ears, eyes and nose only
- (3) Nose, skin and tongue only
- (4) Eyes, nose, skin and tongue only

Section B (30 marks)

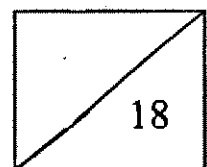
Fill in the blanks with the correct answers. Use each word **once** only.

abdomen	bacteria	creep	diversity
feelers	larva	man-made	moult
natural	pupa	respond	sight
smell	system	yeast	

26. The variety of living and non-living things around us is known as _____.
27. If you touch a snail, it will _____ by quickly moving back into the shell.
28. Most insects have _____ which they use to detect movements and sounds around them.
29. Some plants with weak stems _____ on the ground to look for sunlight.



30. We make use of _____ to turn milk into cheese.
31. Rubber, metals, wood and rocks are known as _____ materials.
32. When an animal sheds its old skin and grows a new one, it is _____.
33. The _____ of a butterfly is considered a pest to farmers.
34. A _____ consists of many parts with different functions.
35. Susie's finger was pricked by a rose thorn while she was picking the rose stalk up. She could have avoided this if she were to use her sense of _____ more carefully.



Section C (20 marks)

Write your answers from questions 36 to 40 in the spaces provided.

36. For each of the statements below, write down the characteristic of living things that is being described.

Example: A rat is eaten up by a cat.

A living thing dies.

- (a) A dolphin swims in the sea.

_____ [1]

- (b) A mother dog has a litter of puppies.

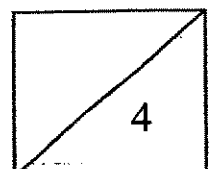
_____ [1]

- (c) Harry finds that he can now reach the top of the shelf without having to stand on a stool.

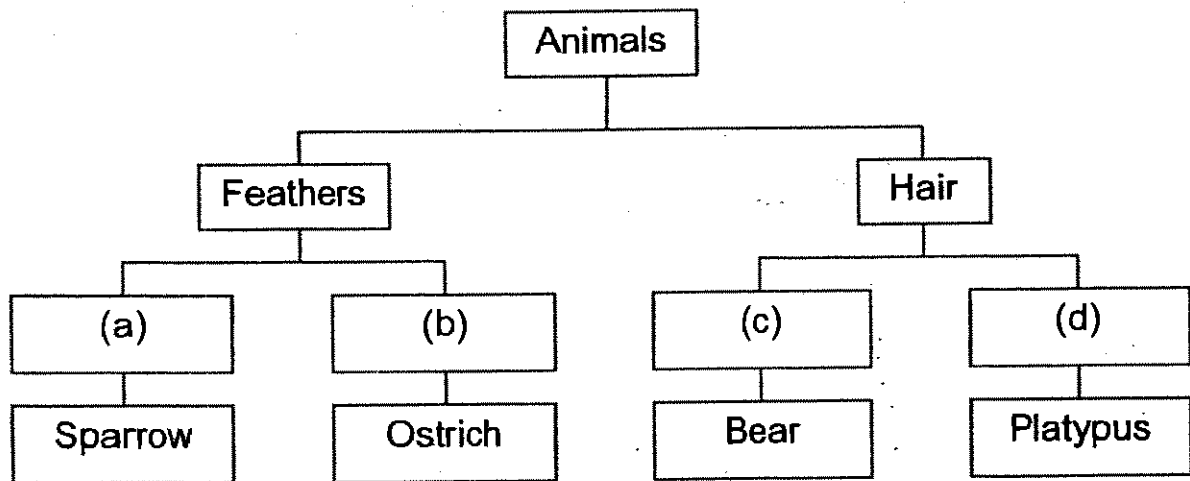
_____ [1]

- (d) A snail is kept inside an empty closed box.
One week later, it is dead.

_____ [1]



37. Fill in the blanks with suitable headings to classify the four animals.

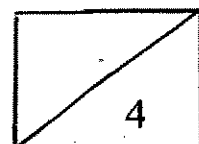


(a) _____ [1]

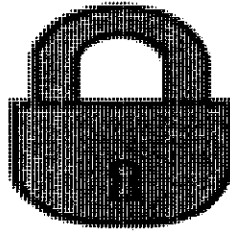
(b) _____ [1]

(c) _____ [1]

(d) _____ [1]



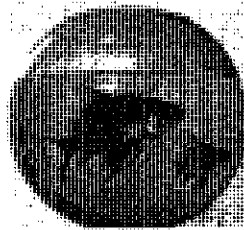
38. (a)



Padlocks are usually made of steel. Give one reason why steel is a suitable material.

_____ [1]

(b)



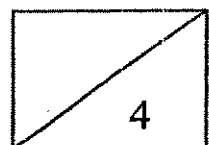
(i) Which material would you choose to make the fish bowl shown above?

_____ [1]

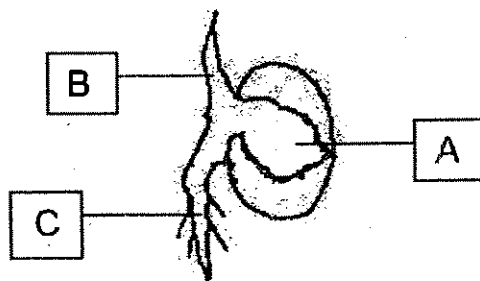
(ii) Write down two reasons for choosing that material.

_____ [1]

_____ [1]



39. The diagram below shows a seedling of a bean.



(a) What is the function of the part labelled 'A'?

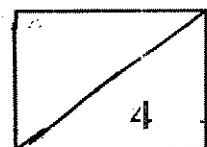
_____ [1]

(b) Name the parts labeled 'A', 'B' and 'C'.

A: _____ [1]

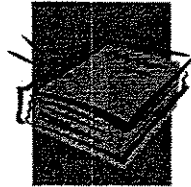
B: _____ [1]

C: _____ [1]



40. Write down the sense organ which could be used to differentiate between each pair of objects in the boxes provided. [4]

(a)

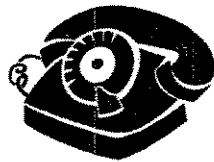


English book



Chinese book

(b)



phone ringing



phone not ringing

(c) two different perfumes

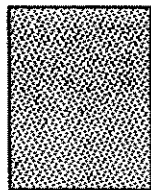


lavender

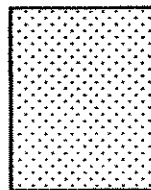


rose

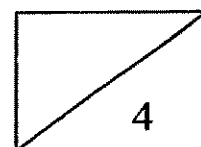
(d) (for a blindfolded person)



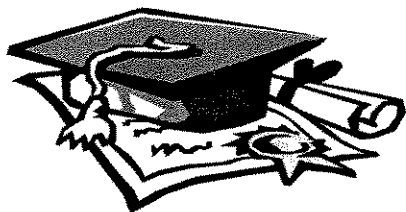
sand paper



tissue paper

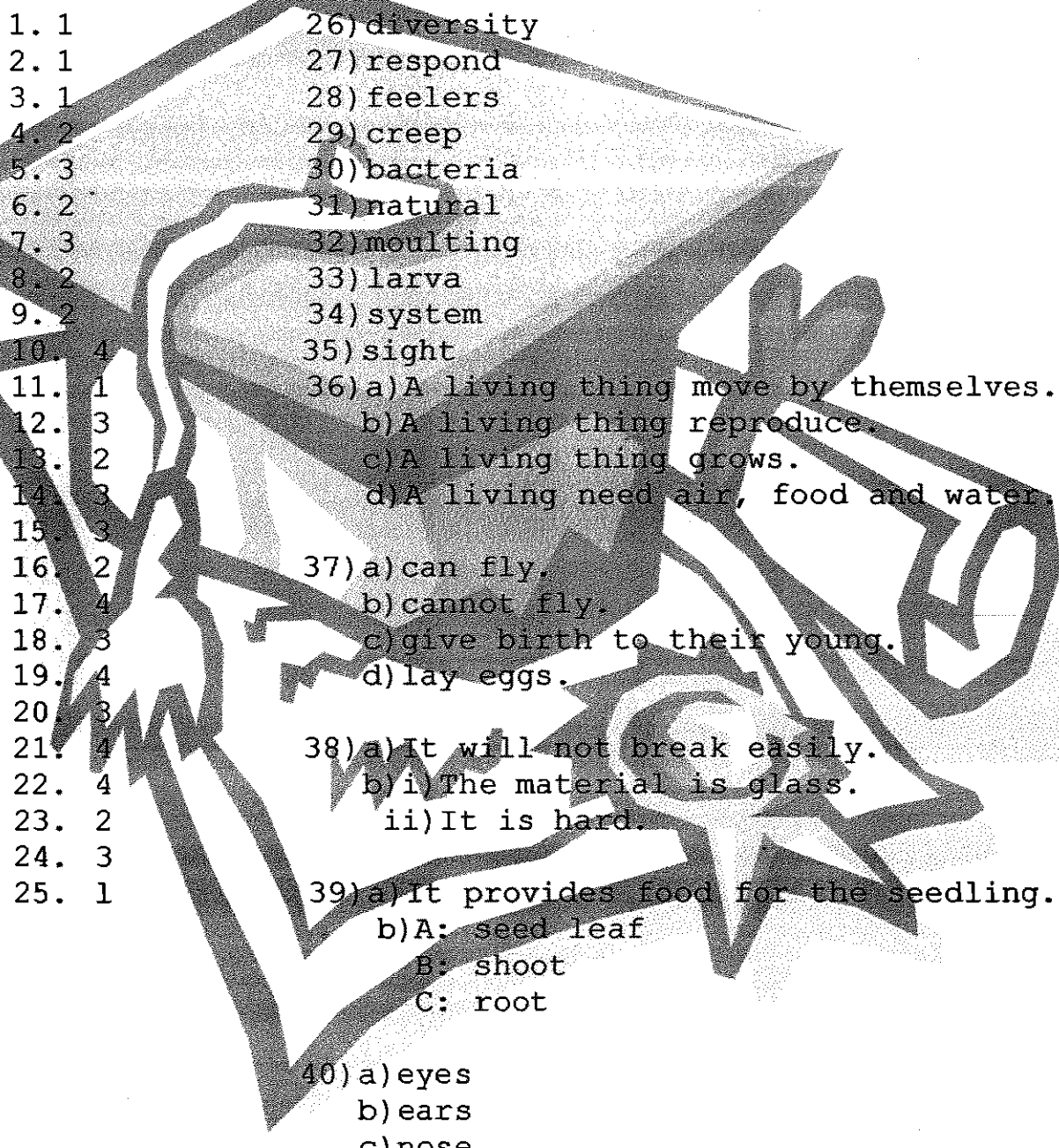


----- End of Paper -----



ANSWER SHEET

AI TONG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (2)

- 
- | | |
|-------|---|
| 1. 1 | 26) diversity |
| 2. 1 | 27) respond |
| 3. 1 | 28) feelers |
| 4. 2 | 29) creep |
| 5. 3 | 30) bacteria |
| 6. 2 | 31) natural |
| 7. 3 | 32) moulting |
| 8. 2 | 33) larva |
| 9. 2 | 34) system |
| 10. 4 | 35) sight |
| 11. 1 | 36) a) A living thing move by themselves. |
| 12. 3 | b) A living thing reproduce. |
| 13. 2 | c) A living thing grows. |
| 14. 3 | d) A living need air, food and water. |
| 15. 3 | |
| 16. 2 | 37) a) can fly. |
| 17. 4 | b) cannot fly. |
| 18. 3 | c) give birth to their young. |
| 19. 4 | d) lay eggs. |
| 20. 3 | |
| 21. 4 | 38) a) It will not break easily. |
| 22. 4 | b) i) The material is glass. |
| 23. 2 | ii) It is hard. |
| 24. 3 | |
| 25. 1 | 39) a) It provides food for the seedling. |
| | b) A: seed leaf |
| | B: shoot |
| | C: root |
| | 40) a) eyes |
| | b) ears |
| | c) nose |
| | d) skin |



2007 Continual Assessment 2

Science

Name : _____ ()

Date : 23 August 2007

Class : Pr 3 ()

Duration : 1 h 15 min (Parts I & II)

Part I: (40 marks)

For each question from 1 to 20, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Mark Sheet (OMS).

1. Which one of the following materials stretches when it is pulled?

- (1) clay
- (2) wood
- (3) metal
- (4) rubber

2. Look at the objects below. They are made of different materials.

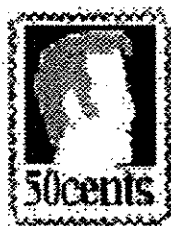
Which one of the following objects below sinks when put in a tank of water?

1)



stone paperweight

2)



postage stamp

3)



feather

4)



match sticks

3. The table below shows where each material comes from. Which one of the following pairs is **correct**?

	From the ground	From animals
(1)	gold	silk
(2)	clay	cotton
(3)	glass	nylon
(4)	wood	wool

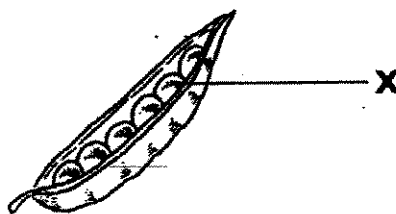
4. Which of the following statement(s) is/are **true** of a life cycle?

- (A) Different animals have different life cycles.
(B) The life cycle of a living thing involves reproduction.
(C) The young of the cockroach goes through the same life cycle as its parents.

- (1) A only
(2) B and C only
(3) A and C only
(4) A, B and C

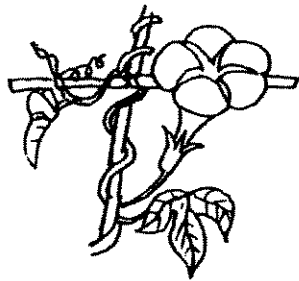
5. The diagram below shows part of a pea pod. The part that is labelled **X** is the

_____.



- (1) fruit
(2) seed
(3) seedling
(4) stalk

6. Study the diagram of a plant below.



Which one of the following **correctly** shows the characteristic of the plant.

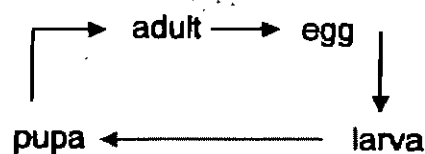
- (A) It has a non-woody stem.
- (B) It has toothed-edge leaves.
- (C) It is a flowering plant.

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

7. What is the similarity between the life cycle of a man and the life cycle of a chicken?

- (1) Both lay eggs.
- (2) Both give birth to young alive.
- (3) Both have life cycles of the same duration.
- (4) Both their young can develop only after fertilisation of eggs by sperms.

8. Which of the following pairs of insects do **not** go through the life cycle as shown below?



- (A) Cockroach
- (B) Mealworm beetle
- (C) Grasshopper
- (D) Mosquito

- (1) A and C
- (2) B and D
- (3) B and C
- (4) A and D

9. Which of the following statement(s) is/are **true** about the stem of a plant?
- (A) It helps the plant make food.
 - (B) It transports water and food to other parts of the plant.
 - (C) It anchors the plant to the ground and holds up the branches.
- (1) A only
(2) A and B only
(3) B and C only
(4) A, B and C
10. Susan is enjoying the scenery when her handphone rings. Which of her following senses is she using?
- (A) Sight
 - (B) Hearing
 - (C) Touch
- (1) A only
(2) B only
(3) A and B only
(4) B and C only
11. We can feel with our hands, legs and other body parts because our body is covered with _____.
- (1) bone
 - (2) muscle
 - (3) hair
 - (4) skin
12. Miss Lim asked Kelly to count the number of oranges on the table. Which sense organ did she use to help her to count?
- (1) Eye
 - (2) Ear
 - (3) Nose
 - (4) Tongue
13. How does Mr Tan know that someone is knocking at his door even though his door is closed?
- (1) He uses his ears.
 - (2) He uses his eyes.
 - (3) He uses his nose.
 - (4) He uses his tongue.

14. The process where food is broken up into small pieces and changed into simple substances before it can be absorbed is called _____.

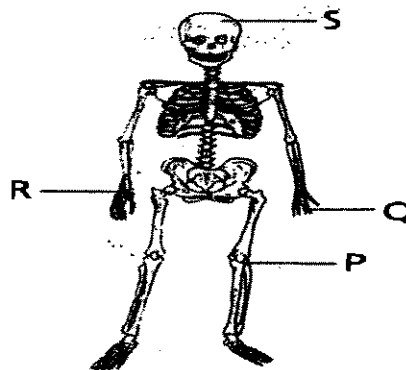
(1) circulation
(2) digestion
(3) photosynthesis
(4) respiration

- *15. Which of the following body parts make up our skeleton?

(A) Skull
(B) Ribs
(C) Lungs
(D) Muscles

(1) A and B only
(2) A, B and C only
(3) A, B and D only
(4) A, B, C and D

- *16. Study the diagram of the skeletal system below. Not all joints are movable. Which one of the following joints is not movable?



(1) P
(2) Q
(3) R
(4) S

17. Linda and Ann looked at animal X.
Linda told Ann, "This animal is a bird."
They could be sure Linda was right if animal X has _____.

(1) gills
(2) feathers
(3) two legs
(4) the ability to fly

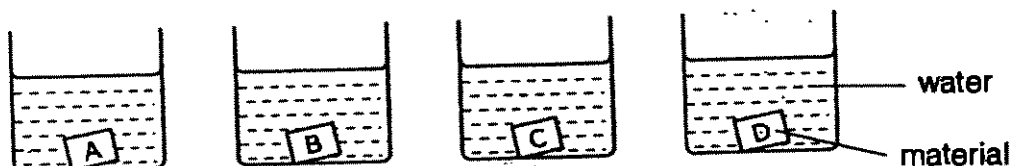
18. Study the classification table below.

Group 1	Group 2	Group 3	Group 4
Letter Envelope	Balloon Eraser	Nail Paperclip	Scarf Tie

The objects have been grouped according to _____.

- (1) their texture
- (2) their shapes
- (3) the materials they are made of
- (4) the places where they are found

19. Jane conducted an experiment to find out how much water each material can absorb using the setup shown below.



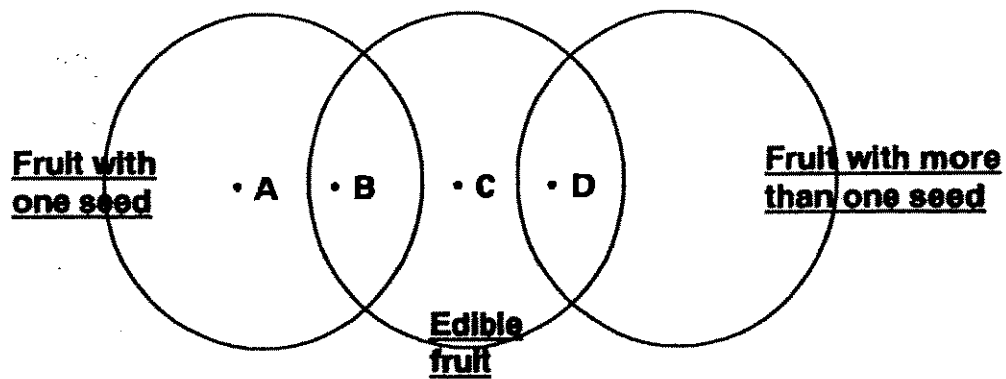
4 thin sheets of materials A, B, C and D were put into 4 beakers containing an equal amount of water. Their mass was measured at the beginning of the experiment and again after 20 minutes. The results were recorded in the table below.

Material	Mass at beginning (g)	Mass after 20 minutes (g)
A	10	10
B	10	13
C	10	15
D	10	20

Which one of the following materials is suitable for making a raincoat?

- (1) A
- (2) B
- (3) C
- (4) D

20. Study the Venn diagram below,



In which part of the Venn diagram would you put 'seedless grape'?

- (1) A
- (2) B
- (3) C
- (4) D

END OF PAPER 1



Maha Bodhi School
2007 Continual Assessment 2
Science

Name : _____ ()

Class : Pr 3 ()

Duration : 1 h 15 min (Parts I & II)

Date: 23 August 2007

Parent's Signature: _____

Part I 36 (40 marks)	
Part II 36 (40 marks)	
Practical Paper (10 marks)	
Junior Scientist Card (10 marks)	
CA2 (100 marks)	

Part II: (40 marks)

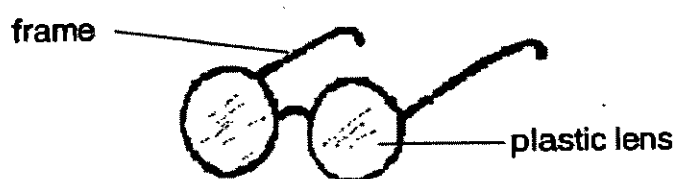
Write your answers to questions 21 to 30 in this script.

21(a). State two properties of metal which make it a suitable material for making jewellery.

(i) _____ [1]

(ii) _____ [1]

The diagram below shows a pair of spectacles.

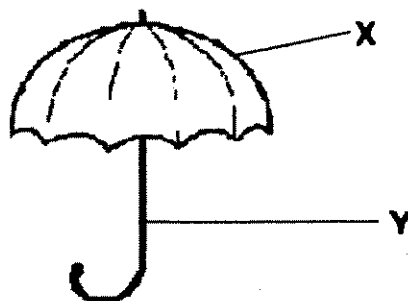


(b) Give an example of a suitable material for making the frame.

_____ [1]

(c) Give **two** reasons why plastic is used to make the lens?

22. The diagram below shows an umbrella.

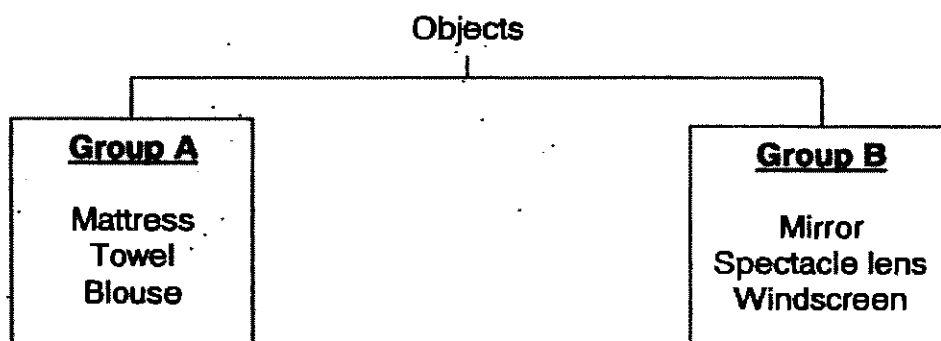


State one possible material used for parts X and Y

(i) Part X: _____ [1]

(ii) Part Y: _____ [1]

23. Study the two groups of objects given in the classification table below.



(a) Give a suitable heading for **Group A** and **Group B**.

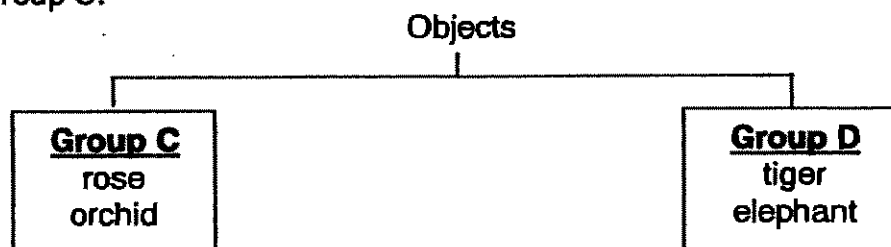
(i) Group A: _____ [1]

(ii) Group B: _____ [1]

(b) Which group does a computer screen belong to?

_____ [1]

(c) Look at the two groups of objects below. Give one example of an object that can be placed in Group C.

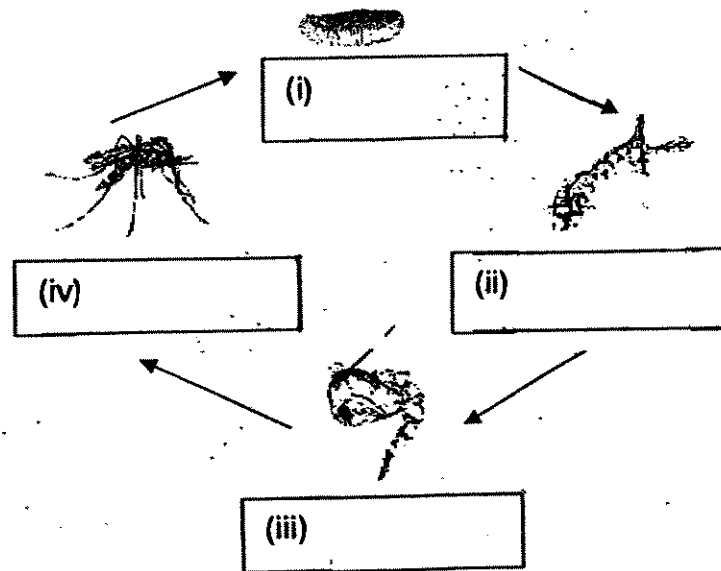


(i) Group C: _____ [1]

4. Write **True** or **False** for each of the following statements below. **True / False** [4]

- (a) A chicken has four stages in its life cycle. _____
- (b) The life cycle of a butterfly is the same as the cockroach. _____
- (c) A seed needs water, air and warmth to germinate. _____
- (d) The life cycle of an organism stops once it grows into an adult. _____

25. The diagram below shows part of the life cycle of a mosquito.



- (a) Name the stages above in the boxes provided.
- (b) Suggest **one** way to prevent mosquito from reproducing

- (c) Explain how does your answer in (b) prevents mosquito from reproducing.

26. Match the sense organs to their functions.

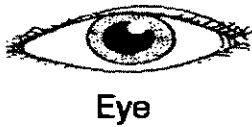
[4]

Sense Organ

Function



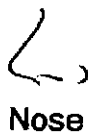
- We can count the number of objects.



- We can sense the fragrance of flowers.

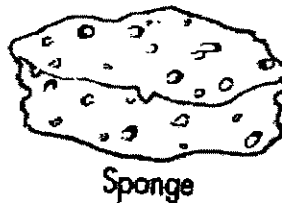


- We can sense whether a packet of milk is cold.



- We can hear whether the music is pleasant.

27. Study the objects below.



a) State one property of each object based on your sense of touch.

(i) Sponge: _____ [1]

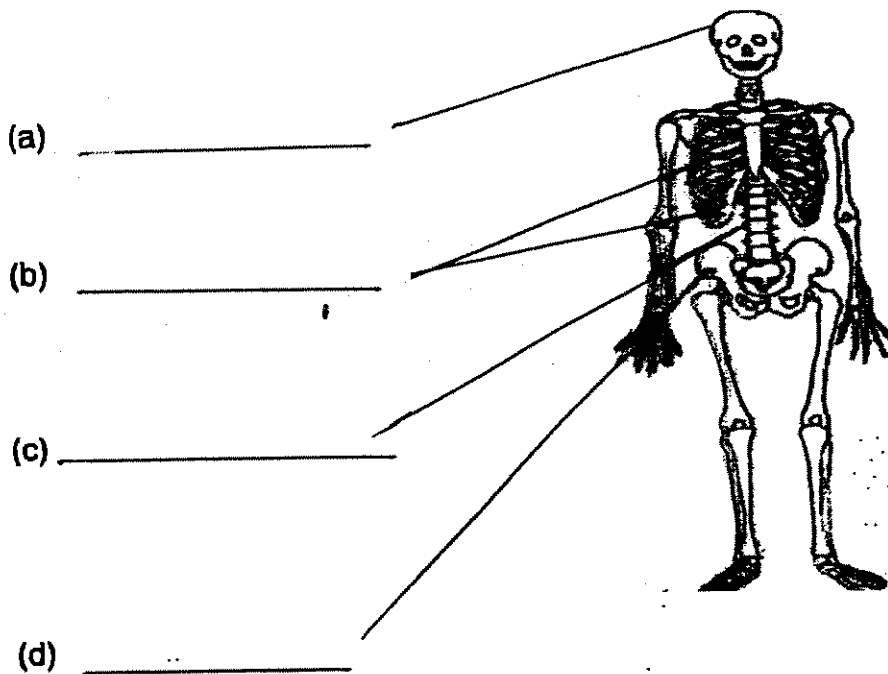
(ii) Marble: _____ [1]

b) Which **sense organs** do we use when we say something is hot?

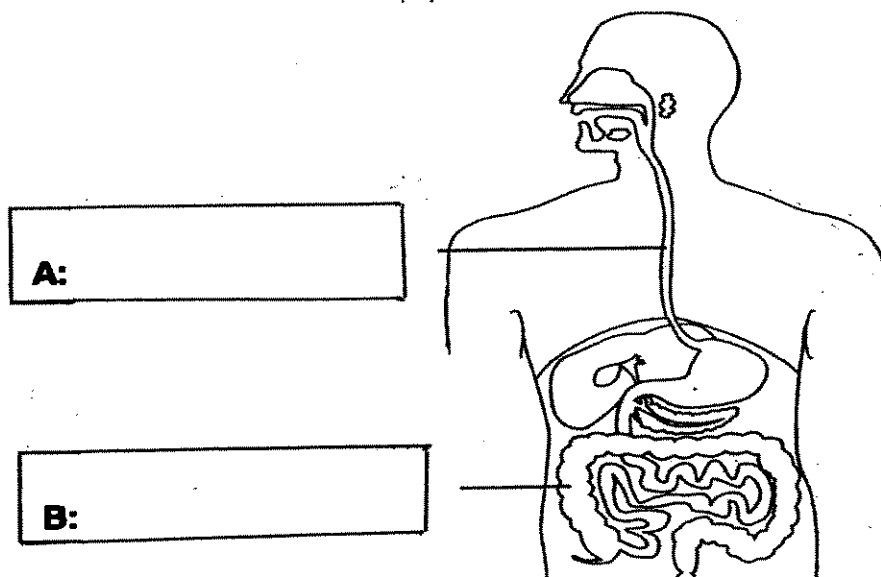
_____ [2]

28. Name the different parts of the skeletal system below.

[4]



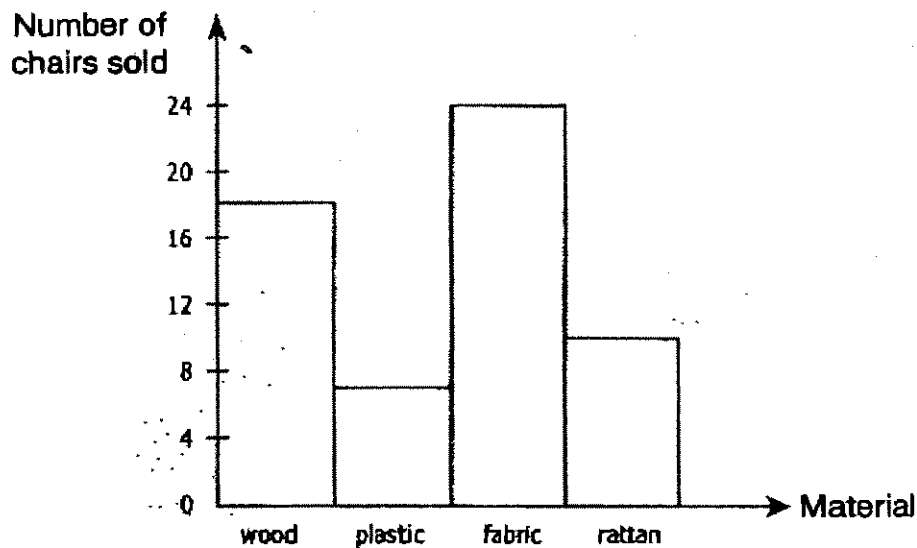
29. Study the digestive system below.



(a) Name Part A and Part B in the diagram above. [2]

(b) Describe what happens to the food when it enters Part B. [2]

30. David wanted to find out whether customers ^{prefer chairs} made from wood, plastic, ~~cloth~~ ^{fabric} or rattan. He plotted a bar graph below based on the number of chairs with different materials sold in store.



- (a) How many chairs were sold altogether?

_____ [1]

- (b) Which material is **most** popular?

_____ [1]

- (c) Give **two** reasons for your answer in (b).

(i) _____ [1]

(ii) _____ [1]

END OF PAPER



ANSWER SHEET

MAHA BODHI PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (2)

1. 4
2. 1
3. 1
4. 4
5. 2
6. 2
7. 4
8. 1
9. 3
10. 3
11. 4
12. 1
13. 1
14. 2
15. 1
16. 4
17. 2
18. 3
19. 1
20. 3
- 21) a) i) Hard/shiny.
ii) Durable (Metal can be bent and shaped when heated.)
b) Metal./plastic
c) It is light and it does not break easily.
- 22) i) X: Plastic Y: Metal
- 23) a) i) Made of cloth/fabric.
ii) Made of glass.
b) Group B.
c) i) lily
- 24) a) False b) False
c) True d) False
- 25) a) i) egg ii) larva
iii) pupa iv) adult mosquito
b) Clear away stagnant water add oil to water surface.
c) Mosquitoes are not able to reproduce without stagnant water.
- 26) ~~XXXXXX~~
- 27) a) i) Soft/rough ii) Hard/smooth
b) Skin and eye.

28) a) skull

b) ribcage

c) back bone

d) hip bone

29) a) A: gullet

B: large intestine

b) It absorbs water from the undigested food.

30) a) 59 chairs.

b) Fabric.

c) i) It is soft.

ii) It is soft and flexible.



**CATHOLIC HIGH SCHOOL
PRIMARY THREE
CONTINUAL ASSESSMENT 2
2007**

SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 23 August 2007

BOOKLET A

20 Questions
40 Marks

Total Time for Booklets A & B : 1 hour 30 min

Instructions to Candidates

There is a total of 10 pages in this booklet.

Do not open this booklet until you are told to do so.

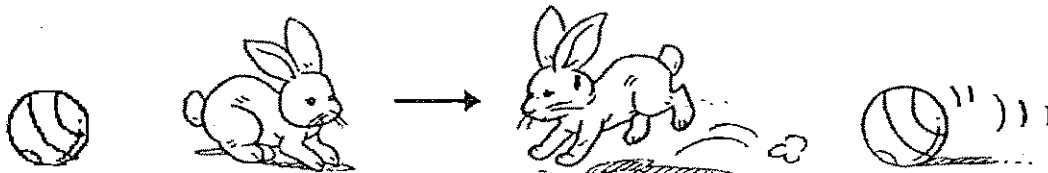
Follow all instructions carefully.

Answer all questions.

Section A : Multiple Choice Questions (40 marks)

For each question from 1 to 20, four options are given. One of them is the most suitable answer. Make your choice (1, 2, 3 or 4) on the Optical Answer Sheet.

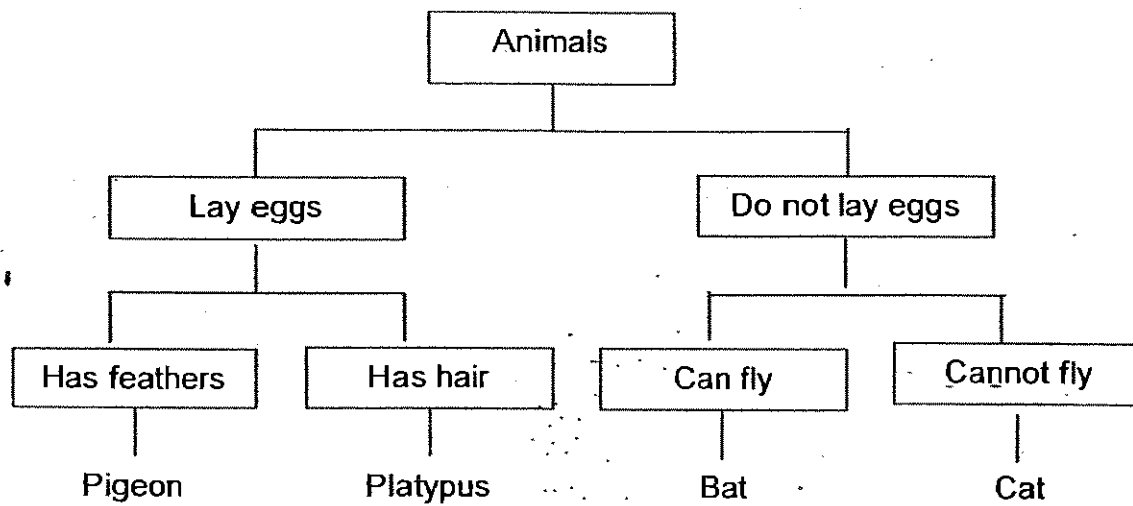
1. Dylan observed what his pet rabbit did when he rolled a ball towards it.



Which of the following actions describe what the rabbit did to show it is a living thing?

- A It can die.
 - B It can grow.
 - C It can reproduce.
 - D It can respond to changes.
- (1) A only
- (2) B only
- (3) C only
- (4) D only

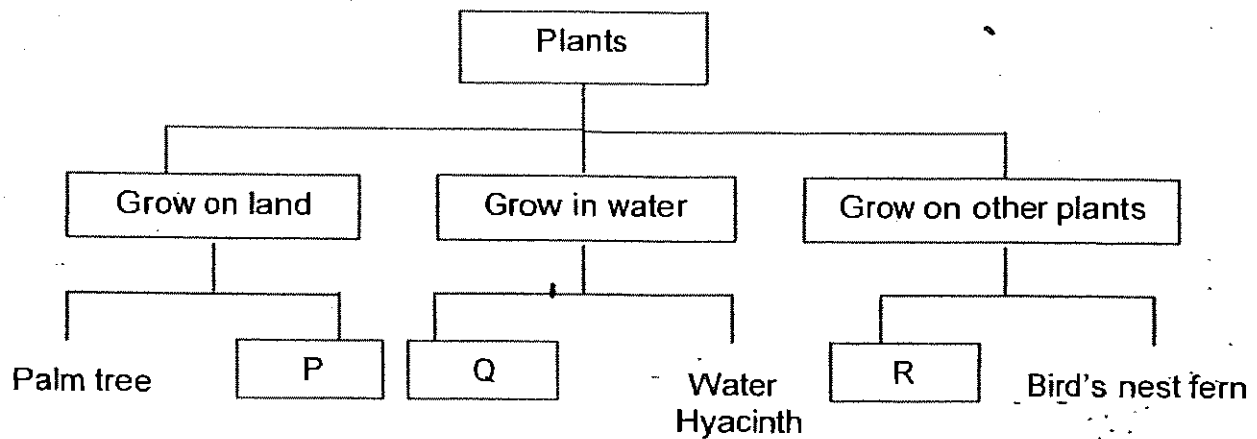
2. The table below shows how some animals can be classified.



Which one of the following statements is true?

- (1) A bat and a platypus lay eggs.
- (2) A cat and a bat move in the same manner.
- (3) A bat and a cat give birth to its young alive.
- (4) A pigeon and a platypus has the same body covering.

3. Study the classification table below.



Which one of the following sets of plants can be placed in boxes P, Q and R?

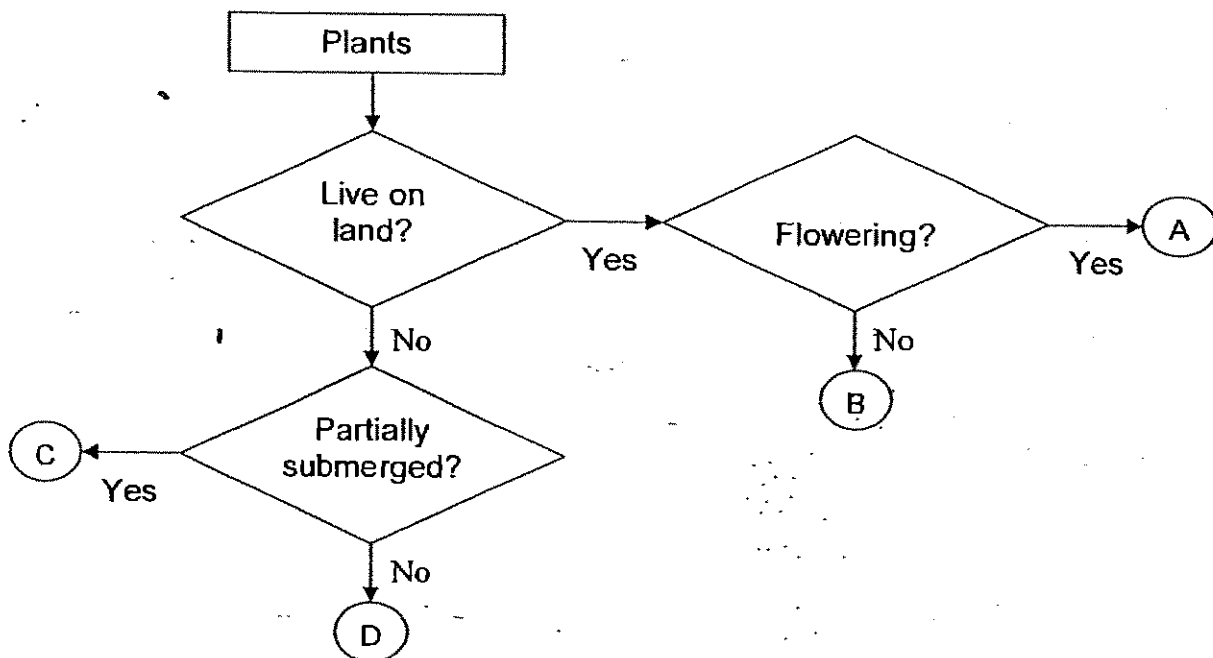
	P	Q	R
(1)	Cactus	Allamanda	Angsana
(2)	Lotus	Water lettuce	Jew's ears
(3)	Hibiscus	Arrowhead	Rambutan
(4)	Morning glory	Hydrilla	Stag's horn fern

4. In what ways are the life cycles of the moth and mosquito similar?

- A They have four stages in their life cycles.
- B They moult several times during the pupa stage.
- C They can fly only when they have entered the adult stage.
- D They feed on similar food when they are at the larva and pupa stages.

- (1) A and B only
- (2) A and C only
- (3) A, B and C only
- (4) A, B, C and D

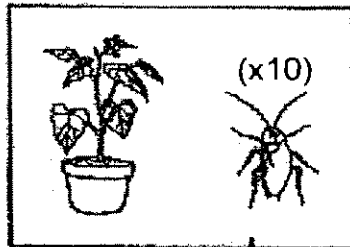
5. Study the flowchart below.



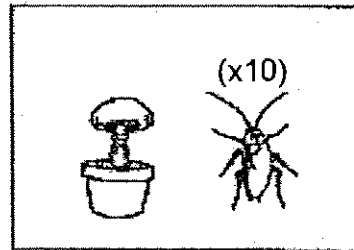
Which of the following plants do A, B, C and D best represent?

	A	B	C	D
(1)				
(2)				
(3)				
(4)				

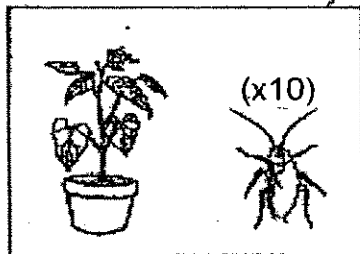
6. The following diagrams show 10 cockroaches under different living conditions. The four sealed containers are left in a brightly lit place for 1 day.



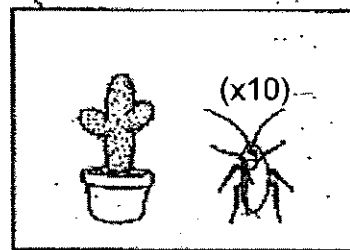
Set-up A
10 cockroaches with a
living green plant



Set-up B
10 cockroaches with a
living mushroom



Set-up C
10 cockroaches with a
plastic plant



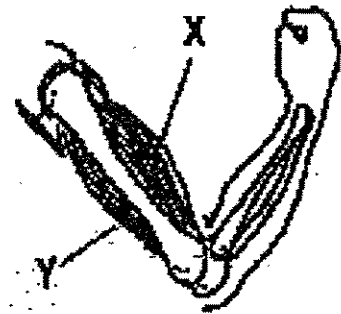
Set-up D
10 cockroaches with a
living cactus

Which of the following statements is incorrect?

- (1) The cockroaches in set-up D will not die because of sufficient oxygen.
- (2) The plastic green plant in set-up C does not provide oxygen for the cockroaches.
- (3) The cockroaches in Set-up B will not die because the mushroom provides oxygen.
- (4) The living green plant in Set-up A takes in carbon dioxide given out by the cockroaches to make food.

7. Ahmad is playing with a ball in the field. If he stretches out his arms to catch the ball, his muscles at X will _____ and his muscles at Y will _____

	X	Y
(1)	relax	contract
(2)	relax	relax
(3)	contract	relax
(4)	contract	contract

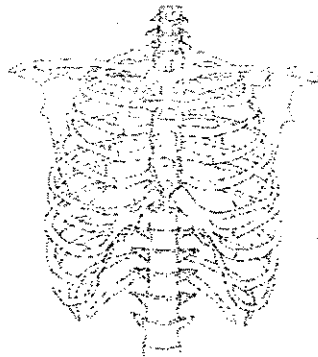


8. Which of the following body parts do we use when we are jogging?

- A Bones
- B Joints
- C Muscles
- D Sense organs

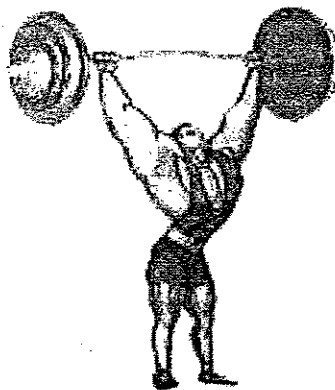
- (1) B and D only
- (2) A, B and C only
- (3) B, C and D only
- (4) A, B, C and D

9. Which part of the human respiratory system is protected by the bone structure shown below?



- (1) Gullet
- (2) Heart
- (3) Lungs
- (4) Windpipe

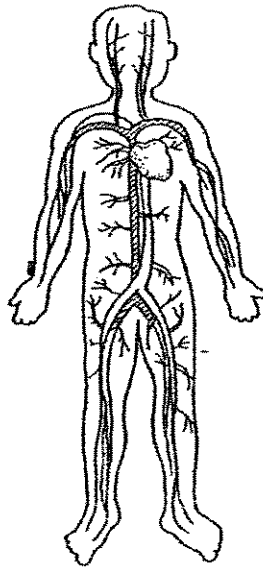
10. Study the picture of the weightlifter below.



Which muscle does he make use of the most when he lifts a 20kg weight?

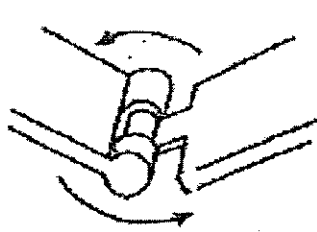
- (1) Leg muscle
- (2) Arm muscle
- (3) Heart muscle
- (4) Stomach muscle

11. Which of the following statements about the human system shown below are true?

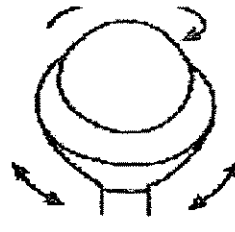


- A It breaks down food into simple substances.
- B It is made up of the lungs, ^{heart} blood and blood vessels.
- C It carries food, water and oxygen to all parts of the body.
- D It carries carbon dioxide from different parts of the body to the lungs.
- (1) A and B only
- (2) A and C only
- (3) B, C and D only
- (4) A, B and C only

12. The diagram below show gadgets X and Y.



Gadget X



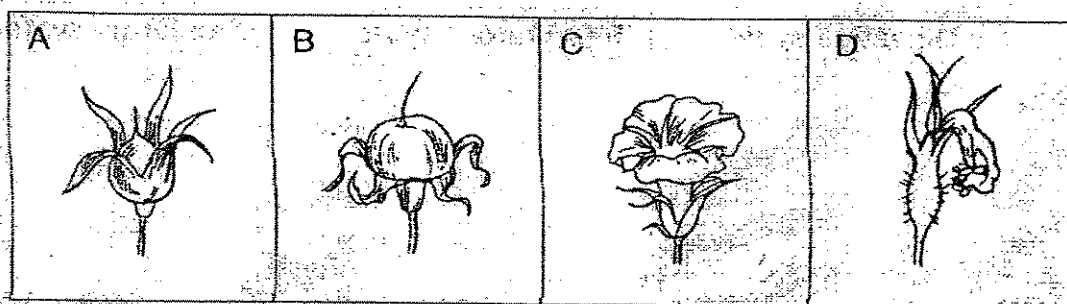
Gadget Y

Which of the following pairs of joints move the same way as gadgets X and Y?

	Gadget X	Gadget Y
A	Elbow joint	Hip joint
B	Finger joint	Neck joint
C	Backbone joint	Elbow joint
D	Knee joint	shoulder joint

- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

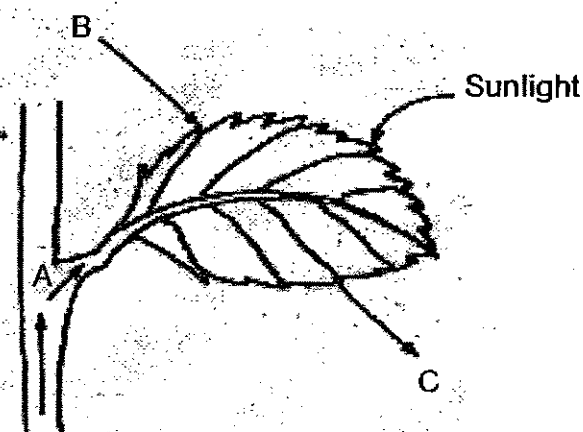
13. The diagram below shows the changes in a morning glory flower.



Arrange the pictures in order to show the stages of its development from a flower to a fruit.

- (1) A → B → C → D
 (2) B → A → D → C
 (3) C → D → A → B
 (4) D → C → A → B

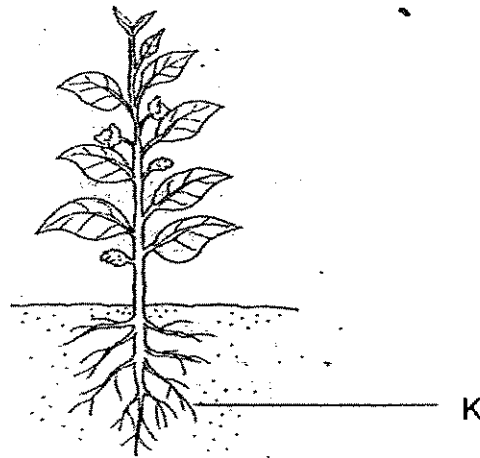
14. Study the diagram below.



Which of the following substances do arrows A, B and C best represent?

	A	B	C
(1)	sugar	oxygen	carbon dioxide
(2)	water	oxygen	carbon dioxide
(3)	sugar	carbon dioxide	oxygen
(4)	water	carbon dioxide	oxygen

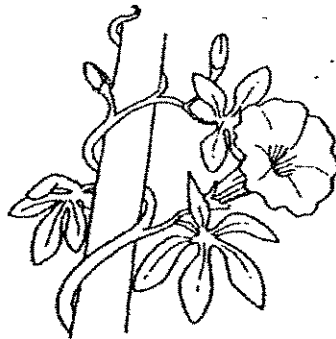
15. Study the diagram below.



What is the importance of the plant part labelled K?

- A It produces and stores food.
 - B It helps to keep the plant in a fixed position.
 - C It has root hairs to take in water and dissolved mineral salts from the soil.
 - D It helps the plant to spread out its leaves so that more light can be captured.
-
- (1) A and B only
 - (2) C and D only
 - (3) B and C only
 - (4) A, B, C and D

- 16 Study the plant below.

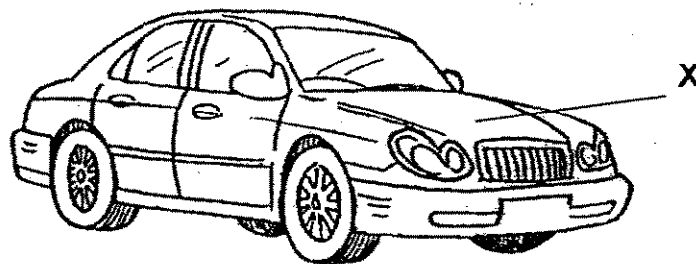


Which of the following characteristics help the plant get more sunlight?

- A Its leaves have veins.
- B It has flowers that grow singly.
- C It grows upwards by climbing up the support.

- (1) B only
- (2) C only
- (3) B and C only
- (4) A, B and C

17. Which is the best reason to explain why X is made of metal?



- (1) Metal is strong and waterproof.
- (2) Metal does not break when dropped.
- (3) Metal is a good conductor of electricity.
- (4) Metal does not allow light to pass through.

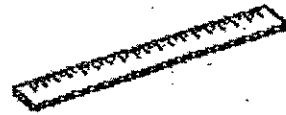
18. Daniel wants to conduct an experiment to see which material is stronger. He uses three similar rulers which are made of different materials.



metal



wood



plastic

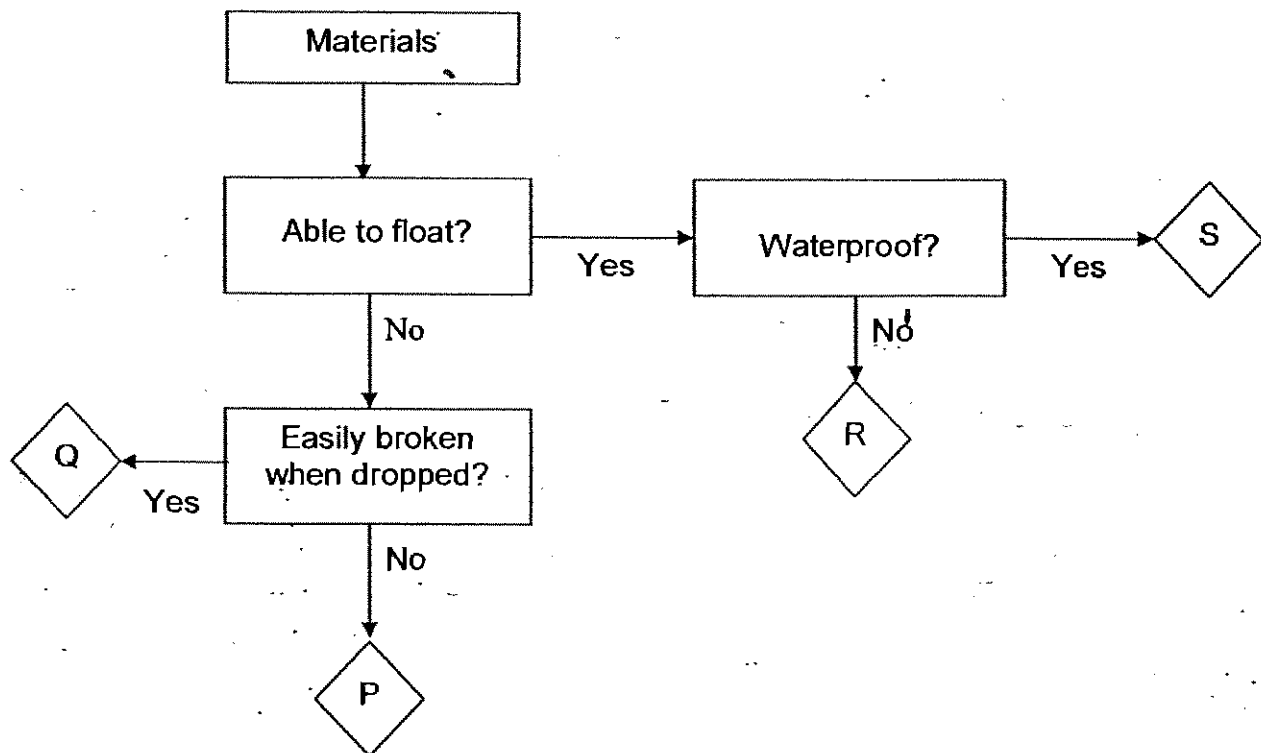
This is what he found out from the results of the experiment.

The metal ruler can be used to scratch the plastic ruler and the wooden ruler but the wooden ruler cannot be used to scratch the plastic ruler.

What can Daniel conclude from the above results?

- A. The metal ruler is the hardest.
 - B. The metal ruler is as hard as the wooden ruler.
 - C. The plastic ruler is harder than the wooden ruler.
 - D. The wooden ruler and plastic ruler are of the same hardness.
-
- (1) A and B only
 - (2) A and C only
 - (3) A and D only
 - (4) B and C only

19. Study the flow chart below.



Which of the following materials do P, Q, R and S best represent?

	P	Q	R	S
(1)	Glass	Metal	Paper	Plastic
(2)	Metal	Glass	Plastic	Paper
(3)	Paper	Plastic	Metal	Glass
(4)	Metal	Glass	Paper	Plastic

20. Kelvin had 2 types of materials X and Y, each of the same size. He wanted to find out which material would absorb the most amount of water. The table below shows the set-ups he had done.

Set-up	Material	Amount of water added to material
A	Y	100ml
B	X	50ml
C	Y	30ml
D	X	100ml

Which 2 set -ups should Kelvin choose in order for his test to be a fair one?

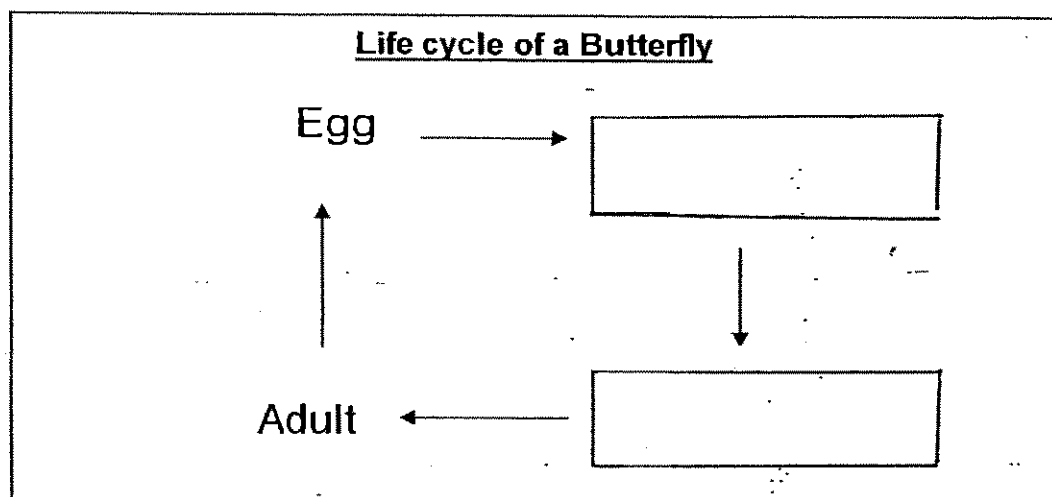
- (1) Set-up A and B
- (2) Set-up A and C
- (3) Set-up A and D
- (4) Set-up B and C

Section B : Open-Ended Questions (40 marks)

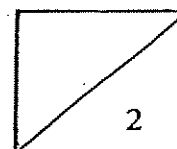
For questions 21 to 35, write your answers in this booklet. The maximum number of marks which can be awarded is shown in brackets [] at the end of each question or part-question.

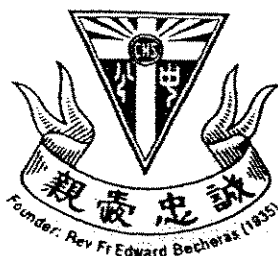
- 21(a) Complete the simple diagram of the life cycle of a butterfly in the box below.

[1]



- (b) State one difference between the life cycles of a butterfly and a grasshopper.





**CATHOLIC HIGH SCHOOL
PRIMARY THREE
CONTINUAL ASSESSMENT 2
2007**

SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 23 August 2007

BOOKLET B

15 Questions
40 Marks

Total Time for Booklets A & B : 1 hour 30 min

Instructions to Candidates

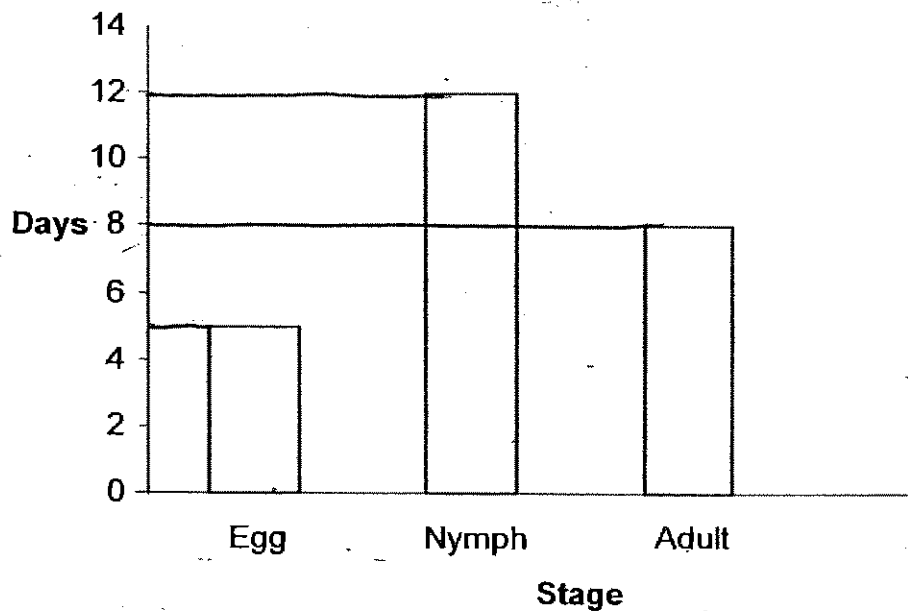
Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Parent's Signature: _____

Date: _____

Score	
Section A	40
Section B	40
Total	80

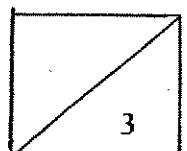
22. The graph below shows the number of days for each stage in the life cycle of an insect.



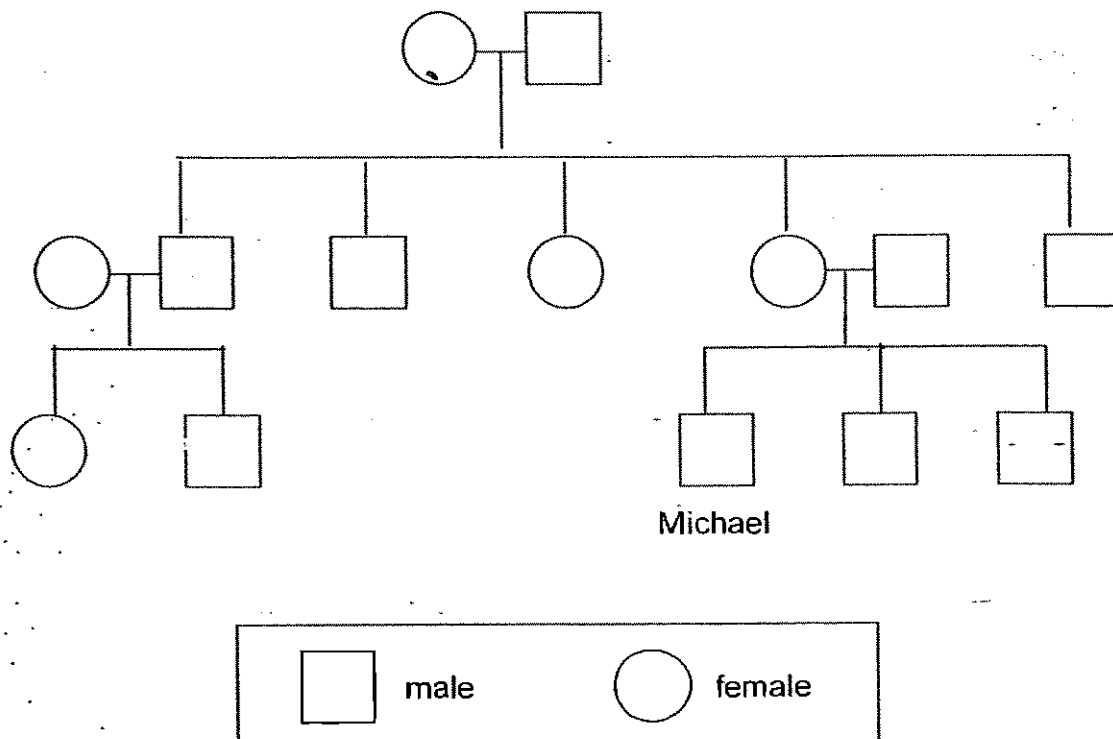
- (a) How many stages are there in the life cycle of this insect? [1]

- (b) How many days would the insect take to become an adult after the egg is hatched? [1]

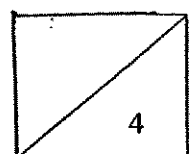
- (c) Name an insect that follows the same number of stages in its life cycle. [1]



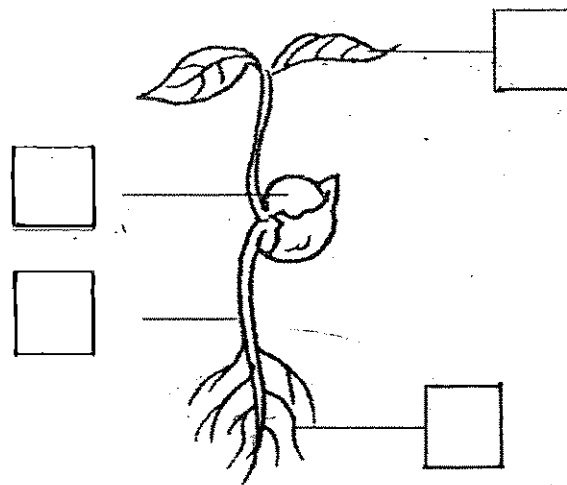
23. Study Michael's family tree in the diagram below and answer the questions.



- (a) How many siblings do Michael have? [1]
- _____
- (b) How many children do Michael's grandparents have? [1]
- _____
- (c) Michael's grandparents and parents are all very tall. Is Michael likely to be tall too when he grows up? Give a reason for your answer. [2]
- _____
- _____

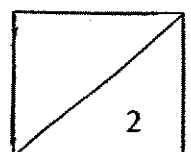


24. The diagram below shows a seedling.

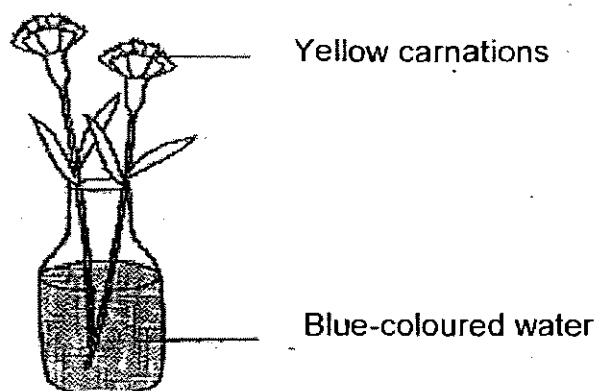


- (a) Label the following parts of the seedling in the diagram above using the letters that represent the descriptions. [2]

Description	letter
The part which grows first.	A
The part which provides food for the seedling.	B
The part which transports water from the roots to the leaves.	C
The part which makes food for the plant when the seedling grows into a plant.	D



25. David placed some yellow carnations in a jar of water. He then added some blue food colouring into the water. He left the flowers in the jar for 2 days.



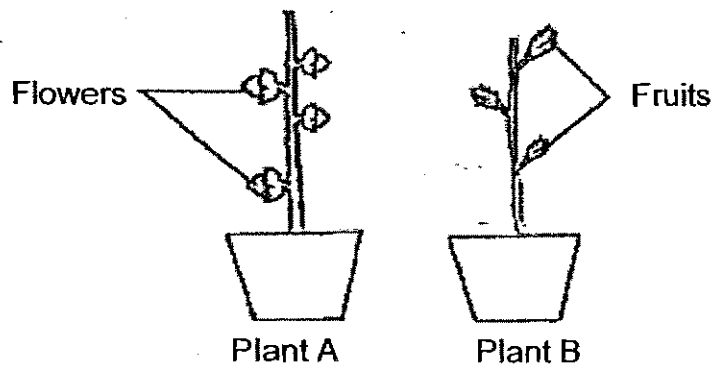
- (a) What happened to the carnations after 2 days? [1]

- (b) Why did this happen to the carnations? [1]

26. Fill in the blanks in the paragraph below with an appropriate word. [2]

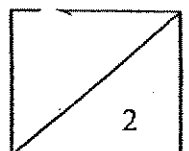
_____ is the process by which green plants make food from carbon dioxide and _____. It uses the energy from sunlight trapped by _____ in the leaves and some green parts of the stem. _____ will be released to the surroundings and food in the form of sugar will be transported to other parts of the plants.

27. In an experiment, Jared cut off the leaves from 2 similar balsam plants. The diagram below shows what is left of Plant A and Plant B. Both plants were left in the garden and watered daily.

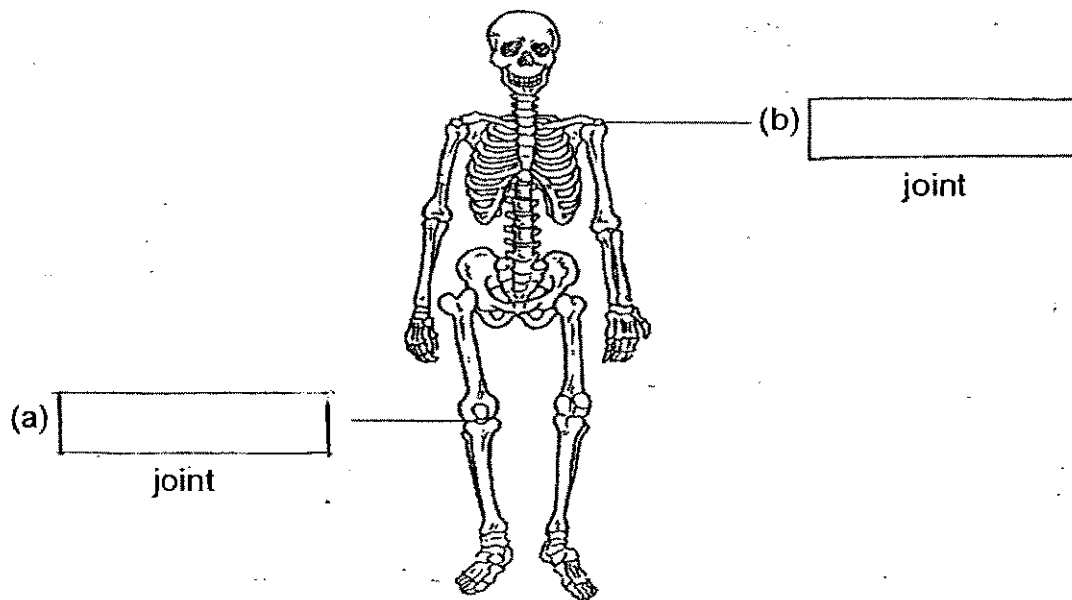


- (a) What will happen to both plants after a week? [1]

- (b) Why did this happen to the plants? [1]



28. Look at the structure of the skeleton below.

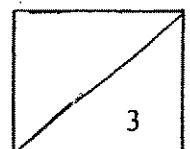


Label the parts (a) and (b) with the correct types of joint.

[2]

(c)- State one function of the skeleton.

[1]

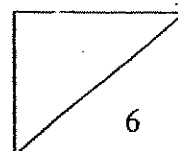


29. Look at the descriptions below and fill in the correct human system. [3]

	Human system	Functions
(a)	_____ System	It helps to take oxygen into the body and remove carbon dioxide from the body.
(b)	_____ System	It consists of muscles and helps different parts of the body to move.
(c)	_____ System	It helps to carry food, water, oxygen and waste materials to and from different parts of the body.

30. Kendrick made the following descriptions about some objects. Write down the sense organs he used in order for him to describe them. [3]

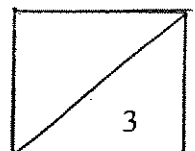
	Description	Sense Organs used
(a)	The pink rose is sweet-smelling.	(i) (ii)
(b)	The towel on the table is wet.	(i) (ii)
(c)	The apple pie is cold but still delicious.	(i) (ii)



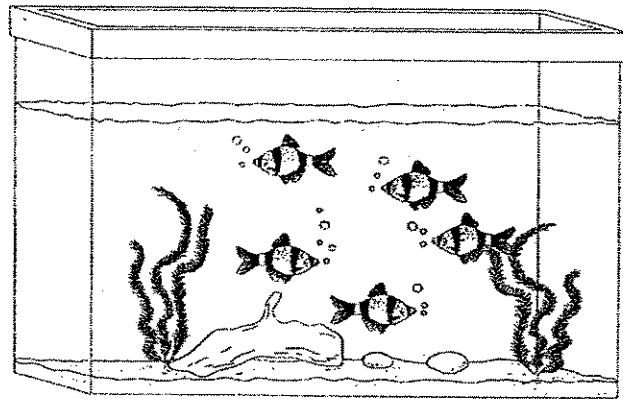
31. Arrange the process below in steps to show the order of digestion of a burger.

[3]

Process	Steps
In the large intestine, water is removed from the digested food. Undigested food passes out of the body through the anus.	
My teeth chew and grind the food into smaller pieces. It mixes with saliva before being swallowed.	
The digested food is absorbed into the bloodstream.	
The food travels down the gullet into the stomach.	
Digestive juices mix with the food to break it down into a soup-like form.	
This partly digested food leaves the stomach and enters the small intestines for further digestion.	



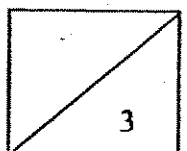
32. Mr Tan has a small aquarium with a few fish in it. Instead of an air pump, he places some water plants in the aquarium. He feeds the fish with fish food everyday.



- (a) How does the water plants help the fish in the aquarium to survive? [1]

- (b) What is the best material to use to make the fish tank? [1]

- (c) Give a reason for your answer in (b). [1]



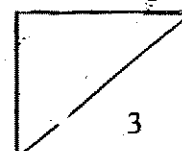
33. Three pieces of fabric X, Y, and Z are placed on a dry table cloth. 5ml of water is poured slowly onto each fabric. The table below records the observations after water has been poured.

Fabric	Observations
X	Water seeps through it and the table cloth under it becomes wet.
Y	Water seeps into it but the table cloth under it remains dry.
Z	Water does not seep through or into it but remains there and the table cloth under it remains dry.

Study the table carefully and fill in X, Y or Z in each blank.

[3]

Description	Fabric
Most suitable for making thick bath towels.	(i) _____
Most suitable for making umbrellas.	(ii) _____
Most suitable for making handkerchiefs.	(iii) _____



34. Abdul conducted several tests on materials, A, B, C and D. His results are shown in the table below.

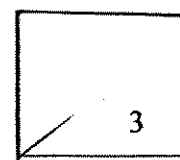
Property	A	B	C	D
Can bend	No	Yes	No	Yes
Can stretch	No	No	No	Yes
Breaks when dropped	Yes	No	No	No
Is waterproof	Yes	Yes	Yes	No

- (ai) Which one of the above materials A, B, C or D would you use to make a raincoat? [1]

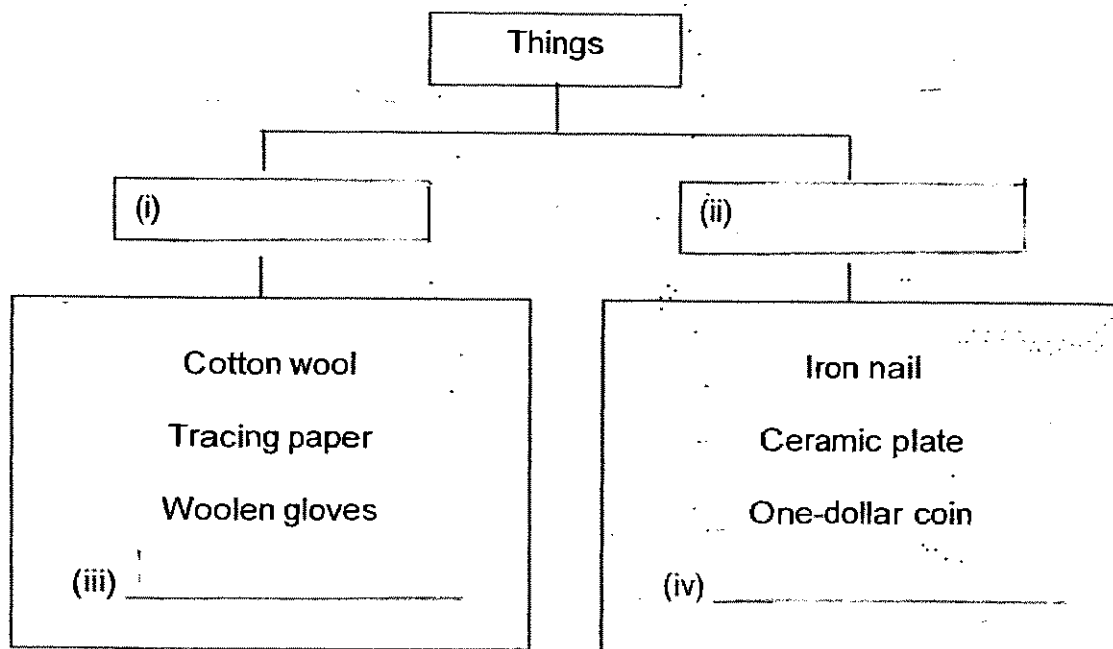
Material _____

- (ii) Give a reason for your answer in ai. [1]

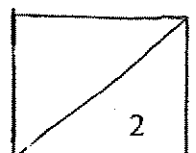
- (b) Which one of the above materials A, B, C or D would you use to make a ceramic vase? [1]

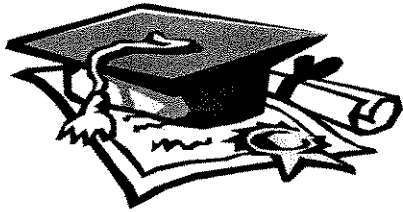


35. Joshua's teacher displayed a few items in class and classified them into two groups according to the physical properties of the materials they were made of.
- (a) Suggest 2 suitable subheadings for the items under (i) and (ii).
- (b) Suggest 2 other objects that can be placed in each of the classification tables under (iii) and (iv).



- End of Paper-
Please check your work!





ANSWER SHEET

CATHOLIC HIGH PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
CONTINUAL ASSESSMENT (2)

1. 4

2. 3

3. 4

4. 2

5. 2

6. 3

7. 1

8. 4

9. 3

10. 2

11. 3

12. 2

13. 3

14. 4

15. 3

16. 2

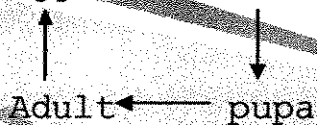
17. 1

18. 2

19. 4

20. 3

21) a) Egg → larva



b) The life cycle of a butterfly has four stages while the life cycle of a grasshopper has three stages.

22) a) There are three stages.

b) It would take 12 days after the egg is hatched.

c) Grasshopper.

23) a) Michael has two siblings.

b) Michael's grandparents have five children.

c) Yes, Michael is likely to be tall because his grandparents pass down the characteristics to his

24) D, B, C, A

25) a) The carnation will become blue.

b) The stems move the blue-coloured water to the leaves to make food and other parts of the plants.

26) Photosynthesis, water, chlorophyll, Oxygen

27) a) They will die.

b) It is because there are no leaves to make food for the plants and they cannot photosynthesis.

28) a) Hinge joint b) ball and socket joint
 c) Skeleton protects the body's inner organs and supports the body.

29) a) Respiratory system
 b) Muscular system
 c) circulatory system

30) a) i) eyes ii) nose
 b) i) eyes ii) skin
 c) i) tongue ii) skin

31) 615234

32) a) It give out oxygen to the fish.
 b) It is glass.
 c) It is transparent.

33) i) Y ii) Z iii) X

34) a) i) B
 ii) It is because, Material B is waterproof that is water resistant.
 b) I would use material A to make a ceramic vase.

35) a) i) Flexible/soft ii) Not Flexible/Hard
 b) iii) Silk cloth iv) Screw.



AI TONG SCHOOL

2007

SEMESTRAL ASSESSMENT 2

PRIMARY 3

SCIENCE

DURATION : 1 H 30 MIN

DATE : 29 October 2007

INSTRUCTIONS

Do not open the booklet until you are told to do so.

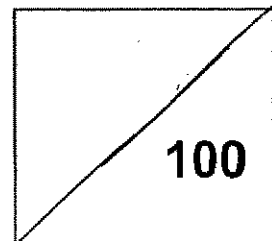
Follow all instructions.

Answer all questions.

Name : _____ ()

Class : Primary 3 _____

Marks:



Parent's Signature : _____

Date : _____

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. Which one of the following is a characteristic of all living things?

They _____.

- (1) feed on plants
- (2) need sunlight to grow
- (3) can grow from young to adult
- (4) reproduce by giving birth to their young

2. An elephant is a living thing because it _____.

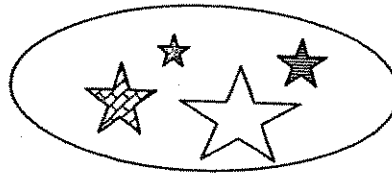
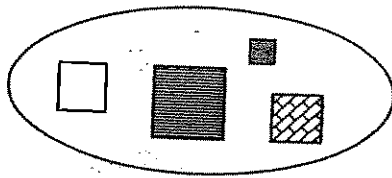
- (1) is big
- (2) is warm
- (3) needs food
- (4) can be seen

3. Why do animals move about?

- A: To look for shelter
- B: To escape from danger
- C: To look for a mating partner

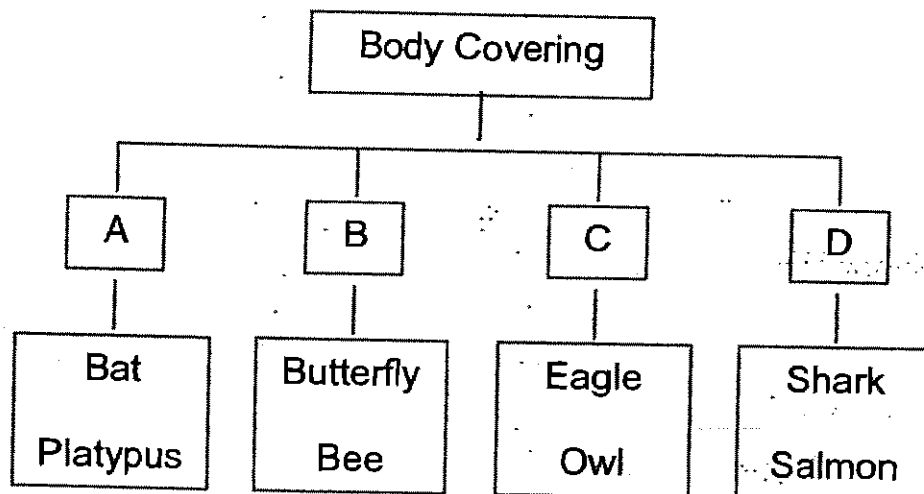
- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B and C

4. The following objects are grouped according to their _____.



- (1) size
- (2) shape
- (3) colour
- (4) texture

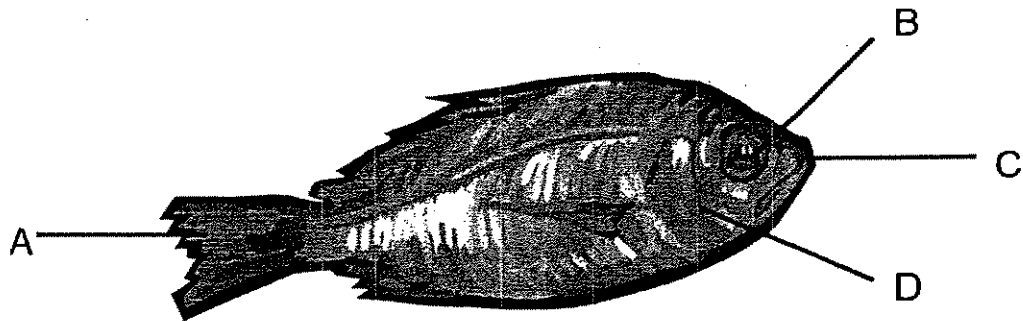
5. The classification table below shows how some animals are grouped.



A penguin should be put in Group _____.

- (1) A
- (2) B
- (3) C
- (4) D

6. The picture below shows a fish.



The part labelled _____ helps the fish to swim.

- (1) A
- (2) B
- (3) C
- (4) D

7. Which group of animals eats only plants?

- (1) Cat, goose, spider
- (2) Horse, panda, crow
- (3) Snail, beetle, eagle
- (4) Caterpillar, grasshopper, zebra

8. Which one of the following statements about chlorophyll is **false**?

- (1) It helps the plant to make food.
- (2) It makes leaves green in colour.
- (3) It is only found in flowering plants.
- (4) It makes plants different from animals.

9. Get a Tutor to go through the Papers. <http://www.vesttution.sg>
Joey went to the school garden and made a sketch of a mushroom as shown below.

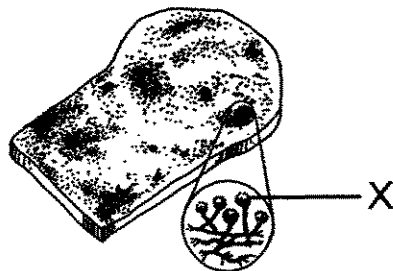


Which of the following statements describe the mushroom correctly?

- A: It makes its own food.
- /B: It reproduces by spores.
- /C: It is a living thing.
- D: It bears flowers and fruits.

- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B, C and D only

10. A piece of bread was left in the kitchen. After a few days, tiny black spots labelled X were formed as shown in the picture below.



Which of the following statements describe X correctly?

- A: They are edible.
- B: They are small and light.
- C: They help in the reproduction of the organisms.

- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B and C

11. The table below shows how some living things can be classified. Which of the organisms are grouped **correctly**?

Fungi	Micro-organisms	Plants
(1) Mould	Bacteria	Bird's nest fern
(2) Cattail	Yeast	Rose plant
(3) Arrowhead	Mould	Jew's ear
(4) Puff ball	Moss	Yeast

12. The _____ is made of only one material.

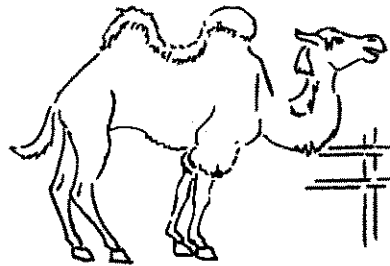
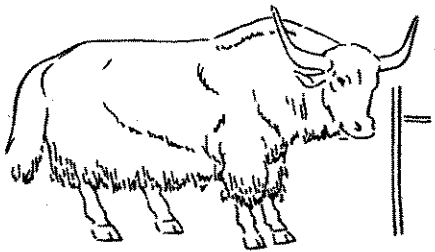


- (1) pen
- (2) towel
- (3) pencil
- (4) pair of spectacles

13. Which one of the following statements is **true**?

- (1) Both mosquitoes and mealworm beetles have a three-stage life cycle.
- (2) During the pupa stage of a caterpillar, it feeds a lot and grows very quickly.
- (3) The young of a frog looks very much like its parents.
- (4) In the life cycle of a butterfly, each stage looks different from the other.

14. The pictures below show two animals.



Which one of the following statements describes both the animals?

- (1) Both have horns.
- (2) Both have hooves.
- (3) Both have long necks.
- (4) Both have humps.

15. The picture shows a kitten.

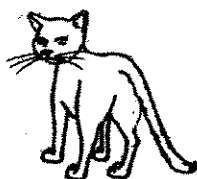


Kitten

Which two cats below are most likely its parents?



A



B



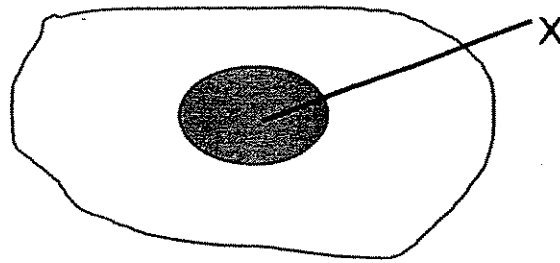
C



D

- (1) A and B
- (2) A and C
- (3) B and C
- (4) C and D

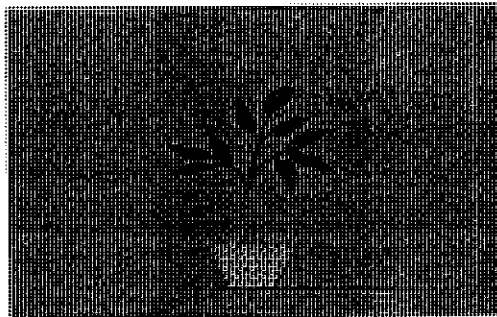
16. The picture shows an egg.



The part labelled X _____.

- (1) will develop into a chick
- (2) provides the developing chick with food
- (3) provides air for the developing chick
- (4) protects the egg from its enemies

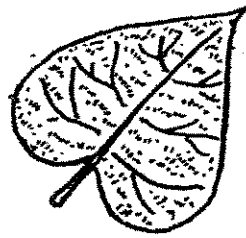
17. Renee left a potted plant in a dark room for a week as shown below.



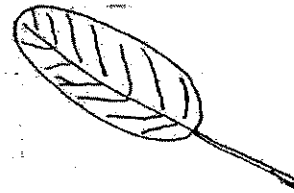
At the end of the week, Renee found the plant dead. The plant was not able to survive because it _____.

- (1) had no warmth
- (2) could not make food
- (3) did not have enough air
- (4) did not have fertilizers

18. Terrence collected two leaves from the garden and made a sketch of them as shown below.



A

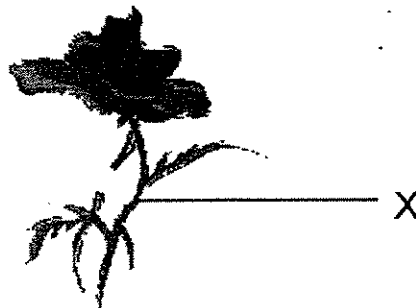


B

How are Leaf A and Leaf B similar?

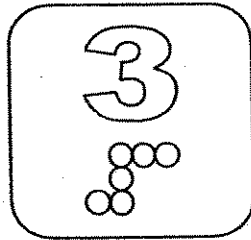
- (1) They have entire edge.
- (2) They are oval-shaped.
- (3) They have no leaf veins.
- (4) Their leaf stalks are of the same length.

19. What will happen to the plant if the part labelled X is missing?



- (1) There will be no seeds.
- (2) There will be no sweet smell.
- (3) The plants cannot be held firmly to the ground.
- (4) Water, food and mineral salts cannot be transported to all parts of the plant.

20. Mary noticed that there are raised dots on the buttons in the lift.



These dots help the blind to tell the number by using their sense of _____.

- (1) sight
- (2) taste
- (3) touch
- (4) hearing

21. The human digestive system is made up of the _____.

- A: lips
- / B: stomach
- / C: small intestine
- / D: anus

- (1) B and C only
- (2) A, B and C only
- (3) B, C and D only
- (4) A, B, C and D

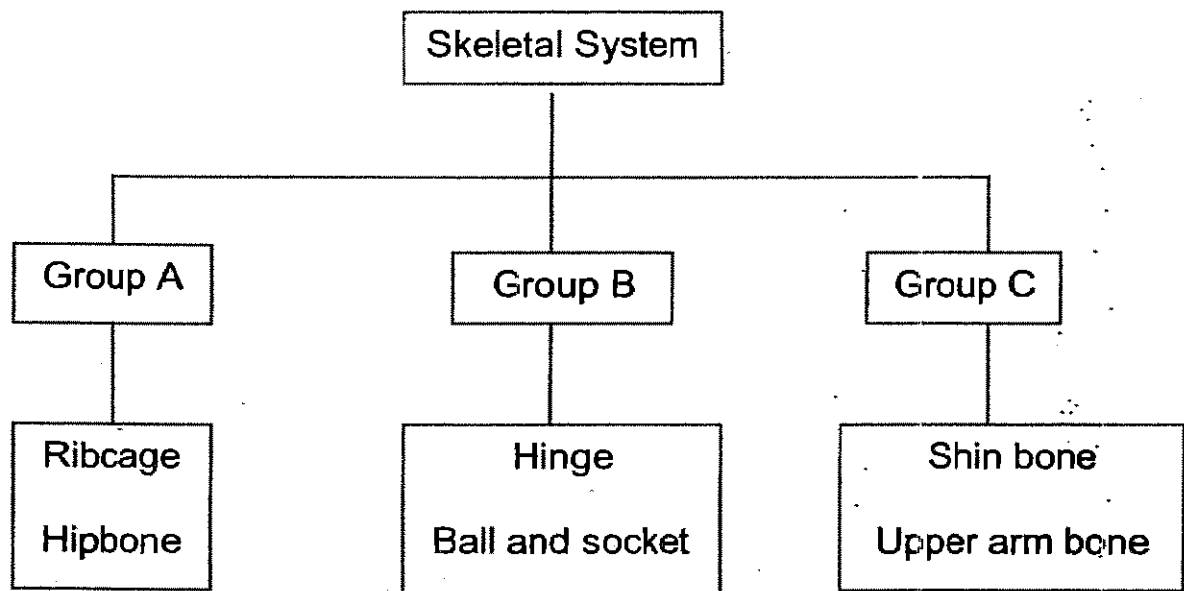
22. The function of the muscular system is to _____.

- (1) support the body
- (2) give the body shape
- (3) help different parts of the body move
- (4) carry waste materials away from different parts of the body

23. Which one of the actions below involves the use of a joint?

- (1) Smiling
- (2) Writing
- (3) Frowning
- (4) Sticking out your tongue

24. The classification chart below shows how some parts of the skeletal system are classified. Which are the possible headings for the different groups?



	Group A	Group B	Group C
(1)	Curved bones	Joints	Straight bones
(2)	Curved bones	Muscles	Straight bones
(3)	Straight bones	Joints	Curved bones
(4)	Muscles	Curved bones	Joints

25. Clay is most suitable for making _____.

- (1) toys
- (2) books
- (3) cupboards
- (4) flower pots

26. The table below shows the properties and uses of four different materials. Which material does not match its property and use?

	Materials	Properties	Uses
(1)	Wood	Hard	Furniture
(2)	Rubber	Flexible	Eraser
(3)	Glass	Breaks easily	Ruler
(4)	Cloth	Light	Curtain

27. Sam had four magnets as shown below. He brought them close to a box of pins.



Magnet
A



Magnet
B



Magnet
C



Magnet
D

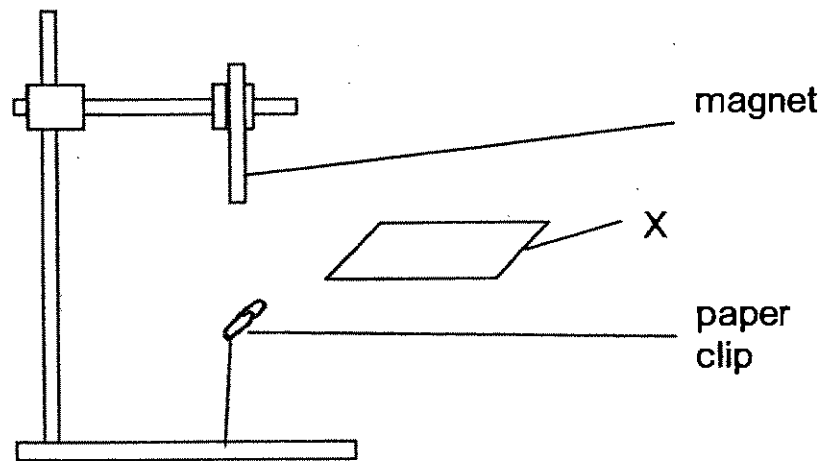
He observed the number of pins attracted by each magnet and tabulated the results in the following table.

	Magnet A	Magnet B	Magnet C	Magnet D
No. of pins attracted	25	30	20	40

From the results in the table, Sam learnt that _____.

- (1) bigger magnets are weaker than smaller magnets
- (2) smaller magnets are weaker than bigger magnets
- (3) the strength of a magnet depends on its size
- (4) the strength of a magnet does not depend on its size

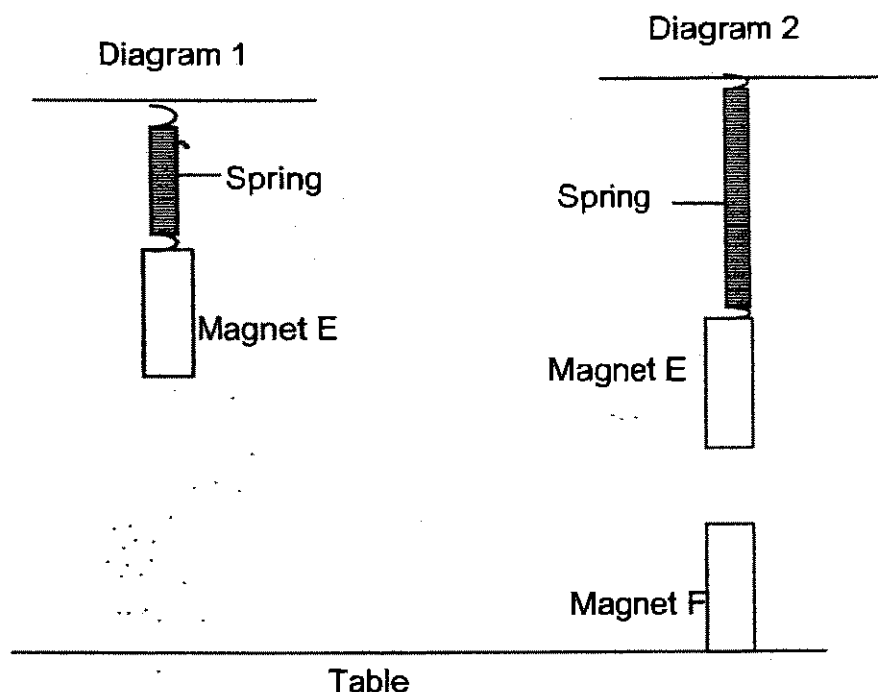
28. A boy wants to find out if magnetism can pass through some materials. He sets up an experiment as shown below.



When he puts material X between the paper clip and the magnet, the paper clip dropped. What is material X?

- (1) A sheet of iron
- (2) A sheet of paper
- (3) A sheet of plastic
- (4) A sheet of rubber

29. Magnet E was hung from a spring as shown in Diagram 1. Magnet F was then placed on the table directly below Magnet E as shown in Diagram 2.



Why did the spring become longer in the set up shown in Diagram 2?

- (1) Magnet F became stronger.
- (2) Magnet F repelled Magnet E.
- (3) Magnet E became weaker.
- (4) Magnet F attracted Magnet E.

30. Peter placed a button magnet near the north-pole of a bar magnet as shown below.



What would he observe?

- (1) The button magnet would move towards the bar magnet.
- (2) The button magnet would move away from the bar magnet.
- (3) The button magnet remains in the same position.
- (4) The bar magnet would move away from the button magnet.

P3 Semestral Assessment 2 (2007)

Name: _____ ()

Class: _____

Section B: (20 marks)**Fill in the blanks with the correct answers. Use each word ONCE only.**

spores	rocks	chlorophyll	north-south	homes
warmth	living things	iron	sunlight	photosynthesis
man-made	flowers	batteries	seeds	natural

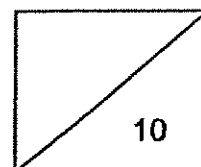
31. _____ can be classified into plants, animals, micro-organism and fungi.

32. Fruits develop from _____.

33. Plastic is a _____ material produced from crude oil.

34. Stones, sand and clay come from _____.

35. Non-flowering plants reproduce from _____.



36. For germination to take place, a tomato seed needs air, water and

_____.

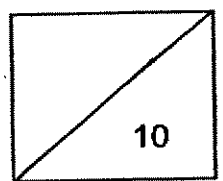
37. A freely-turning magnet always comes to rest in the
_____ direction.

38. The strength of an electromagnet can be increased with the use of more

_____.

39. Steel and _____ objects can be picked up by an
electromagnet.

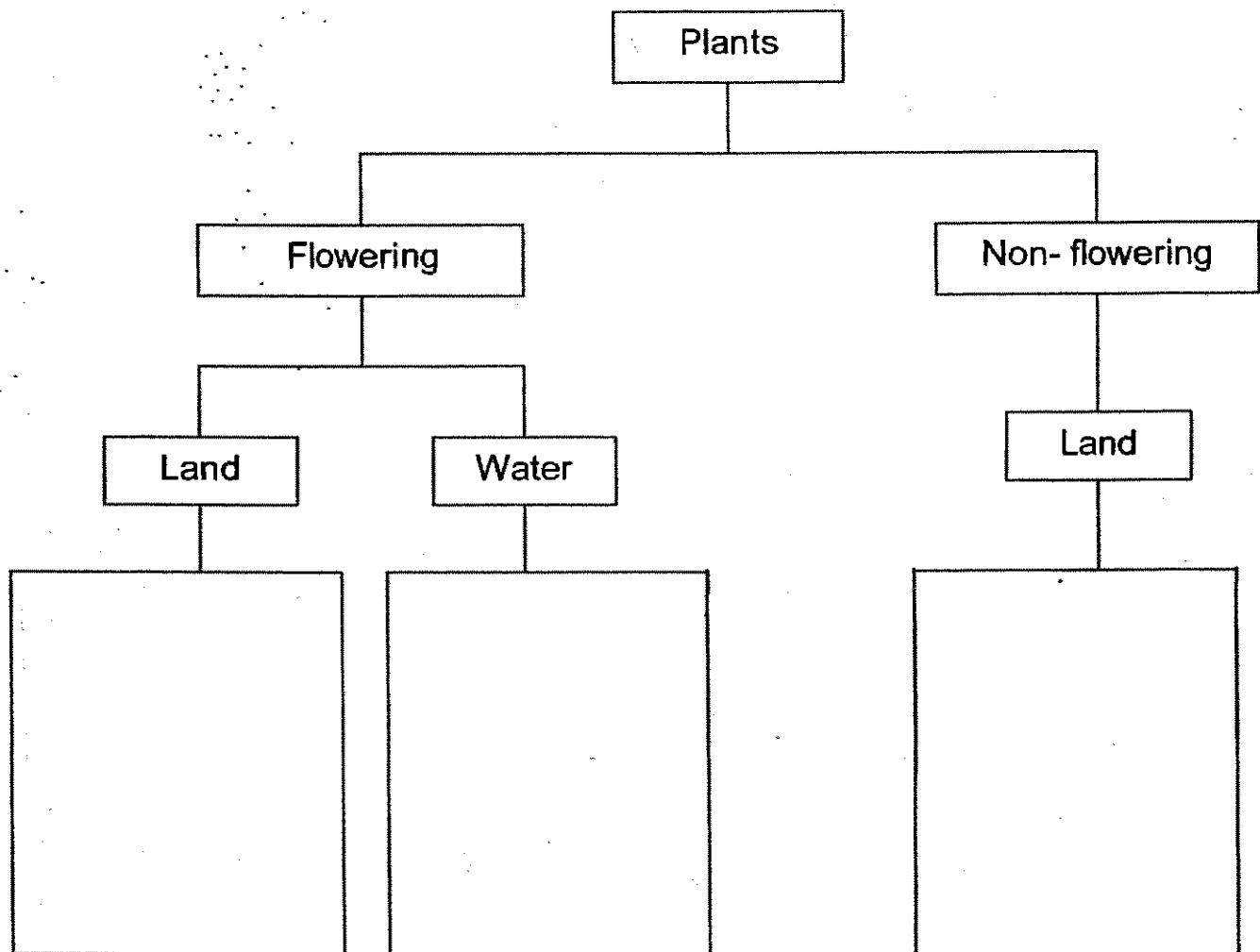
40. Plants make food in a process called _____.



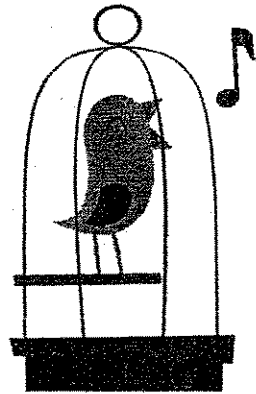
Section C: Open-ended Questions (20 marks)**Write your answers to questions 41 to 45 in the spaces provided.**

41. Sort these plants into two groups according to the classification chart below. [4]

water lily	jasmine	ladder fern	bougainvillea
moss	cattail	papaya	maidenhair fern



42. Lily bought a pet bird and put it into a cage.



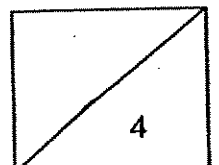
- (a) What are the things Lily should put into the cage to ensure that the bird stays alive?

_____ [2]

- (b) When Lily tried to catch the bird with her hands, it flew away. Which two characteristics of living things was the bird showing?

(i) _____ [1]

(ii) _____ [1]

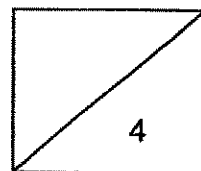


43. The table below shows 4 objects and the properties of the materials used to make them.

Object Properties	Bag	Toothpick	Handkerchief	Window panes
Flexible	Yes	No	Yes	No
Absorbs water	No	Yes	Yes	No
Can see through	Yes	No	No	Yes
Light	No	Yes	Yes	No

State the material that can be used to make the following objects by referring to the properties in the table:

- (a) Bag : _____ [1]
- (b) Toothpick : _____ [1]
- (c) Handkerchief : _____ [1]
- (d) Window panes: _____ [1]



44. (a) Classify the following animals into the correct life-cycle stage in the

table below.

[2]

cockroach	mosquito	chicken	butterfly
-----------	----------	---------	-----------

Three-stage life cycle	Four-stage life cycle

(b) Draw the diagrams to represent the life cycles of the chicken and butterfly in the boxes provided below.

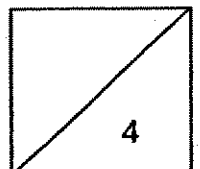
[2]

i)

Life cycle of a chicken

ii)

Life cycle of a butterfly



45. (a) The statements below describe how our digestive system works.

[2]

~~A:~~ The food is crushed and mixed with other digestive juices in the stomach.

~~B:~~ The food goes into the small intestine.

~~C:~~ The teeth help to grind the food and the saliva helps to digest the food slightly.

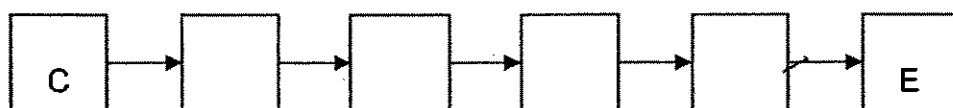
~~D:~~ The food moves down the gullet into the stomach.

~~E:~~ The undigested food goes into the large intestine and then passed out through the anus.

~~F:~~ The very tiny bits of food pass into the blood vessels.

Arrange them in order starting with 'C' and ending with 'E'.

[2]

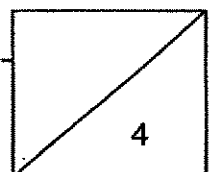


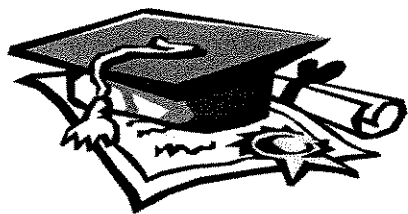
(b) Name 2 parts of the digestive system where digestive juices can be found.

(i) _____ [1]

(ii) _____ [1]

----- Have you checked your work? -----





ANSWER SHEET

AI TONG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 3
2. 3
3. 4
4. 2
5. 3
6. 1
7. 4
8. 3
9. 3
10. 3
11. 1
12. 2
13. 4
14. 2
15. 3
16. 2
17. 2
18. 1
19. 4
20. 3
21. 3
22. 3
23. 2
24. 1
25. 4
26. 3
27. 4
28. 1
29. 4
30. 1

31) Living things

32) flowers

33) man-made

34) rocks

35) spores

36) warmth

37) north-south

38) batteries

39) iron

40) photosynthesis

41) Land: jasmine, bougainvillea, papaya

Water: cattail, water lily

Land: ladder fern, maidenhair fern

42) a) She must put water and food into the cage.

b) i) living things respond to changes.

ii) Living things move by themselves

43) a) plastic b) wood

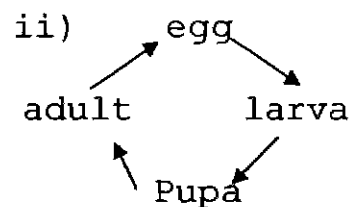
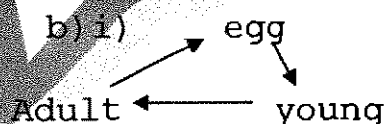
c) cloth d) glass

44) a) Three-stage life cycle

chicken, cockroach

Four-stage life cycle

mosquito, butterfly



- 45) a) $C \rightarrow D \rightarrow A \rightarrow B \rightarrow F \rightarrow E$
b) i) small intestine.
ii) stomach.



Maha Bodhi School
2007 Semestral Assessment 2
Science

Name : _____ ()

Date : 31 Oct 2007

Class : Pr 3 ()

Duration : 1 h 30 min (Parts I & II)

Part I: (60 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS).

1. Joseph described an item to his friends, "It is red and yellow. Part of it feels smooth and it gives out a loud sound."

Which of the following senses did he use?

- A: Hearing
- B: Sight
- C: Smell
- D: Touch

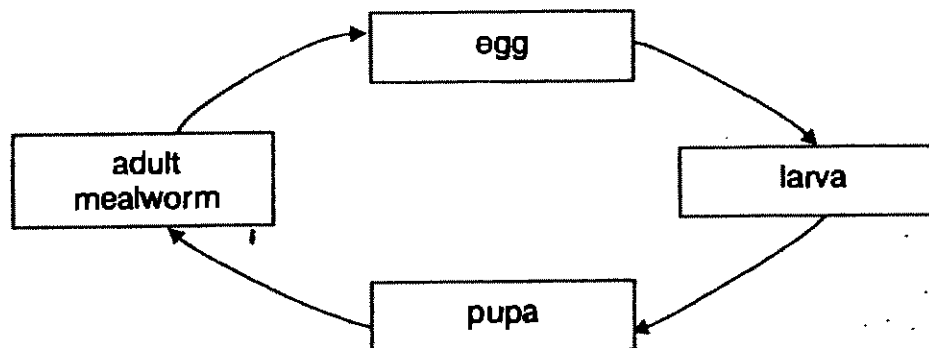
- (1) A and B only
- (2) B and C only
- (3) A, B and D only
- (4) A, B, C and D

2. Mervin was describing an animal, "It has scales and lays eggs. It can live on both land and in water. It breathes through its lungs."

Which one of the following group does this animal belong to?

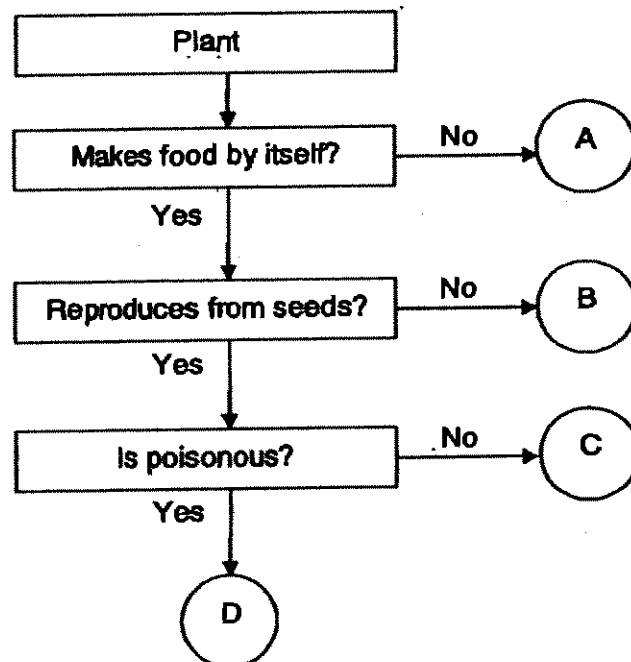
- (1) Fish
- (2) Bird
- (3) Reptiles
- (4) Mammals

3. The diagram below shows the life cycle of a mealworm.



Which one of the following animal has a similar life cycle as the mealworm?

- (1) Guppy
 - (2) Butterfly
 - (3) Chicken
 - (4) Cockroach
4. There are many types of plants. Study the binary key shown below.



Which one of the following letters, A, B, C or D, best represents the fern?

- (1) A
- (2) B
- (3) C
- (4) D

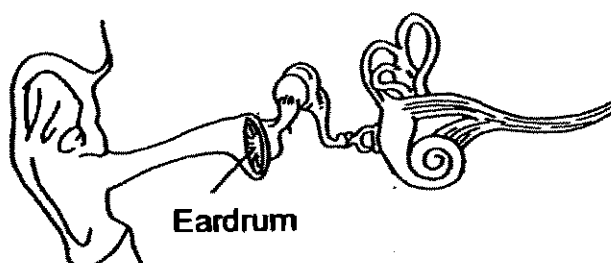
5. Rakesh made the following observation in the growth of a green bean plant.

Day	Length of Root (cm)	Length of Shoot (cm)	Number of Leaves
0	0	0	0
2	1	0	0
4	2	1	0
6	4	4	2
10	6	7	4

From which day can the plant start making food on its own?

- (1) Day 2
- (2) Day 4
- (3) Day 6
- (4) Day 10

6. Your ears are the sense organs needed to detect sounds.



Which one of the following best describes the function of the ear drum?

- (1) It collects sounds.
- (2) It tells the listener what the sound is.
- (3) It creates sounds and noises for the listener.
- (4) It vibrates and sends a message to the brain.

7. Linda ate a hamburger for lunch.

Which one of the following shows the correct route the hamburger will take in the digestive system?

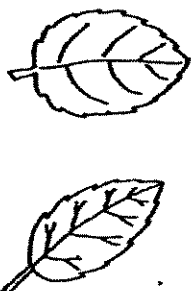

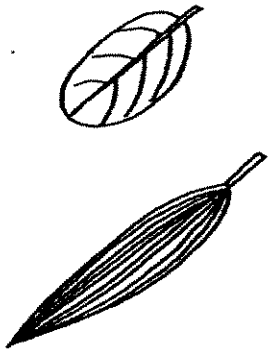
- (1) Mouth → Gullet → Small Intestine → Large Intestine → Stomach
- (2) Mouth → Gullet → Stomach → Small Intestine → Large Intestine
- (3) Mouth → Stomach → Gullet → Small Intestine → Large Intestine
- (4) Mouth → Stomach → Large Intestine → Small Intestine → Gullet

8. The large intestine is part of the digestive system.
Which of the following statements about the large intestine are **not** true?

A : Digestion is completed in the large intestine.
 B : Mineral salts are removed in the large intestine.
 C : Most of the water is removed in the large intestine.
 D : Digested food is absorbed through the walls of the large intestine and into the bloodstream.

- (1) A and B only
 (2) A and D only
 (3) B and C only
 (4) A, B and D only

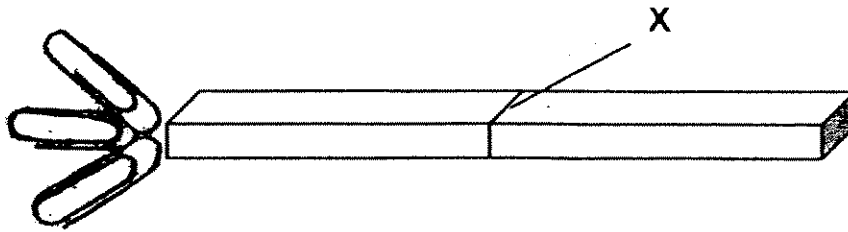
9. Kenneth classified some leaves as shown below.

Group A	Group B	Group C
		

He has classified the leaves according to their _____.

- (1) texture
 (2) colour
 (3) size
 (4) edge
10. Wen Li put a magnet near a few objects.
Which one of the following objects will be attracted to the magnet?
- (1) Iron nail
 (2) Plastic bottle
 (3) Glass marble
 (4) Aluminium foil

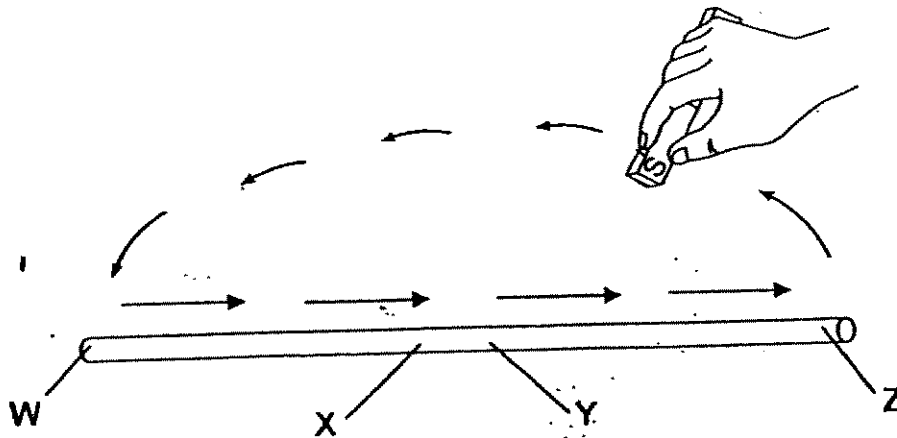
11. The figure below shows a bar magnet.



What is the number of paper clips most likely to be attracted at X?

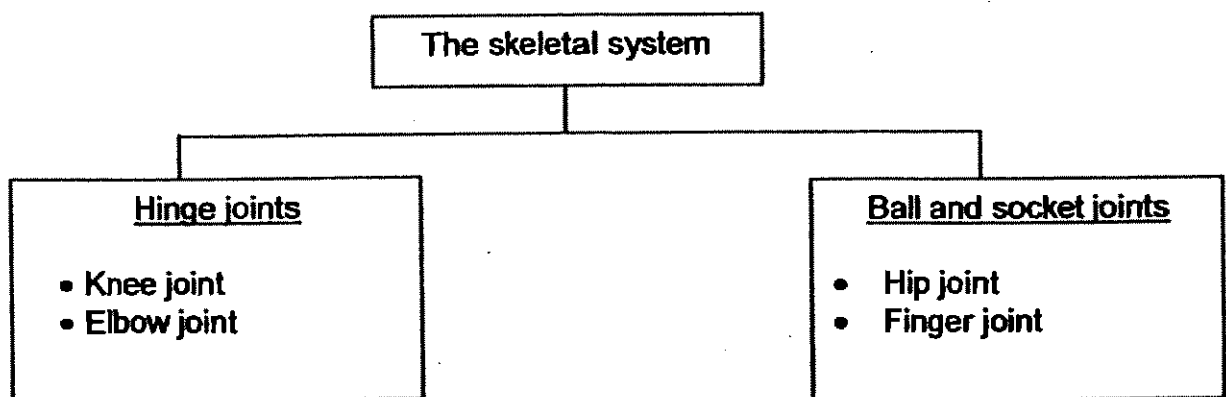
- (1) 1
 - (2) 3
 - (3) 5
 - (4) 7
12. Joyce wants to make a magnet stronger by passing an electric current through it. Which of the following should she do to make the magnet stronger?
- A : Increase the number of magnets
 - B : Increase the number of batteries
 - C : Increase the thickness of the wire
 - D : Increase the number of coils around the magnet
- (1) A and B only
 - (2) A and C only
 - (3) B and C only
 - (4) B and D only
13. Which of the following statement(s) is/are true about the muscular system?
- A: All the muscles in our body are attached to bones.
 - B: Muscles work in pairs, while one relaxes, the other contracts.
 - C: The muscular and skeletal systems work together to enable movement.
- (1) B only
 - (2) A and B only
 - (3) A and C only
 - (4) B and C only

14. Karl did the following to an iron rod as shown in the diagram below.



Which part of the iron rod shows the North seeking pole?

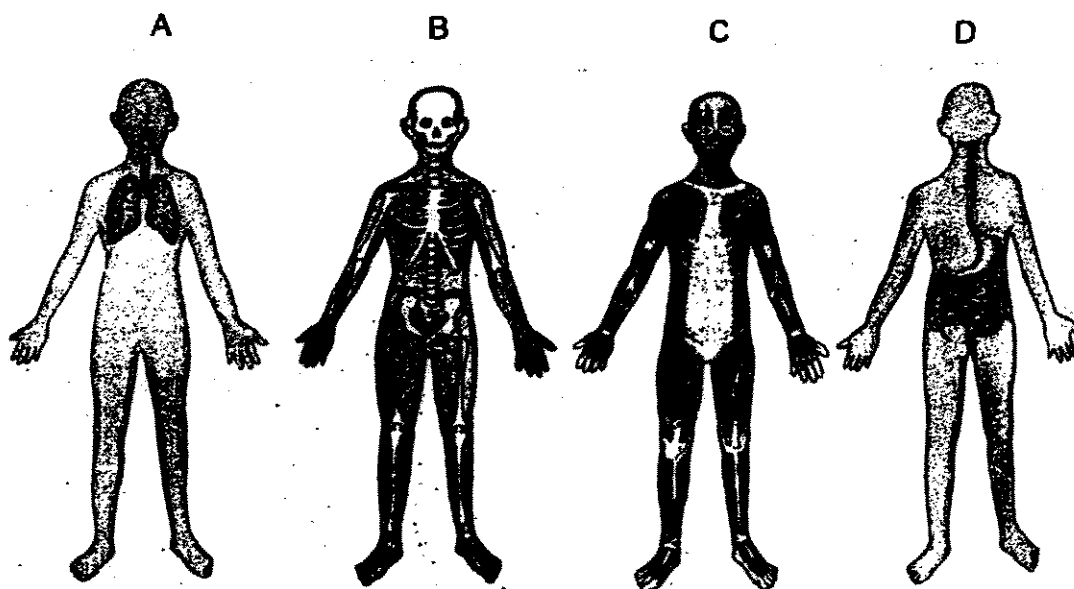
- (1) W
(2) X
(3) Y
(4) Z
15. The skeletal system is made up of bones and joints:



Which one of the following joints has been classified **wrongly**?

- (1) Hip joint
(2) Knee joint
(3) Elbow joint
(4) Finger joint

16. The diagram below show four body systems, A, B, C and D.



Which one of the following lists about the systems is wrong?

	System	Function
(1)	A	Takes in oxygen for the body
(2)	B	Protects the organs in the body
(3)	C	Helps different parts of the body move
(4)	D	Carries waste materials away from different parts of the body

17. Genes are passed down from one generation in a family to another. Study the table of the Lim family as shown below.

	Eyes colour	Hair colour	Nose shape
Mr Lim	Brown	Dark brown	Rounded
Mrs Lim	Brown	Black	Sharp
Joshua	Brown	Black	Rounded
Linda	Brown	Dark Brown	Rounded

Which one of the following statements below is true?

- (1) Mr Lim inherited his hair colour from Linda.
 - (2) Mr Lim passed down his eye colour to Mrs Lim.
 - (3) Linda passed down her nose shape to Joshua.
 - (4) Mrs Lim passed down her hair colour to Joshua.
18. James found some items in the store room. He has sorted them out as shown in the table below.

Box 1	Box 2	Box 3	Box 4
Raincoat	Magazines	Keys	Rubber boots
Plastic bag	Newspapers	Thumbtacks	Swimming float

In which box would he put the safety pins?

- (1) Box 1
- (2) Box 2
- (3) Box 3
- (4) Box 4

19. Jane is exercising by cycling as shown below.

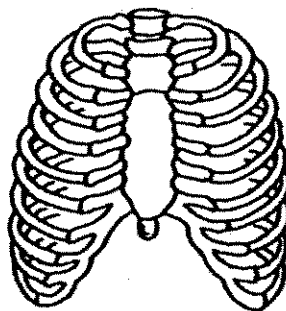


Which of the following system(s) in her body did she use?

- A: Skeletal
- B: Muscular
- C: Digestive

- (1) A only
- (2) A and B only
- (3) A and C only
- (4) B and C only

20. The diagram below shows the ribcage.

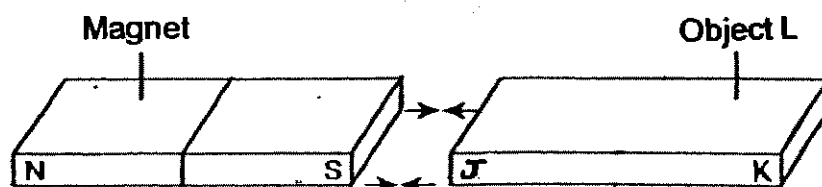


Which of the following organs do the ribcage protect?

- A: Liver
- B: Lungs
- C: Heart
- D: Kidneys

- (1) A and C only
- (2) B and C only
- (3) B and D only
- (4) A, C and D only

21. Grace puts a piece of magnet near Object L. The south-seeking pole of the magnet attracts both parts J and K.



Which of the following statements are true?

- A: Object L is plastic.
- B: Object L is made of steel.
- C: The north-seeking pole of the magnet will attract part J of object L.
- D: The north-seeking pole of the magnet will attract part K of object L.

- (1) A and C only
- (2) B and D only
- (3) A, C and D only
- (4) B, C and D only

22. Cathy is in an air-conditioned room. She has the following response as shown in the diagram below.



What would be the likely cause of her response?

- (1) Cathy is feeling sad.
- (2) Cathy is feeling cold.
- (3) Cathy is feeling sleepy.
- (4) Cathy is watching a comedy.

23. The magnetism of an object can be destroyed in some ways.
Which of the following ways will destroy the magnetism of a magnet?

A: Hammering the magnet.
B: Heating the magnet over a flame.
C: Stroking the magnet with a non-magnetic object.
D: Dropping the magnet from the fourth storey to the first storey of a building.

- (1) A and B only
(2) A and C only
(3) A, B and D only
(4) B, C and D only

24. The pupils in Mrs Tan's class made the following observations on a part of a plant.

Kim: It is a plant part.

Cathy: It holds the plant firmly to the ground.

Esther: It absorbs water and mineral salts from the soil.

Which of the following plant part did the pupils observe?

- (1) Root
(2) Leaf
(3) Stem
(4) Flower

25. Jim placed four similar pots of plant A, B, C and D in the garden. He wanted to find out which pot of plants will not be able to survive without one of its parts. He removed one part from each plant as stated below.

Plant A: All the roots are removed.

Plant B: All the fruits are removed.

Plant C: All the flowers are removed.

Plant D: All the leaves are removed.

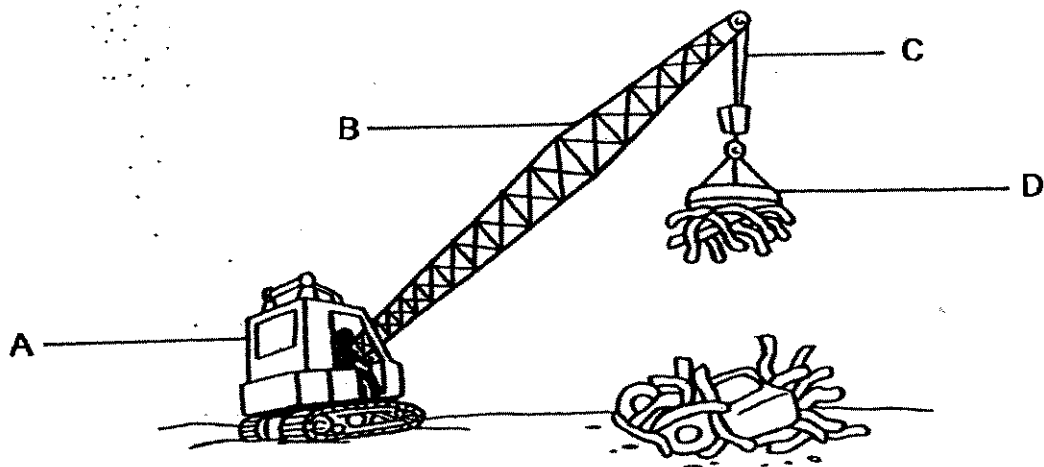
Which of the following plants will still be alive after 1 week?

- (1) A and D only
(2) B and C only
(3) B, C and D only
(4) A, B, C and D

26. We make use of magnets in our everyday life.
Which one of the following objects does not make use of magnets to work?

(1) Doorbell
(2) Compass
(3) Book cover
(4) Refrigerator door

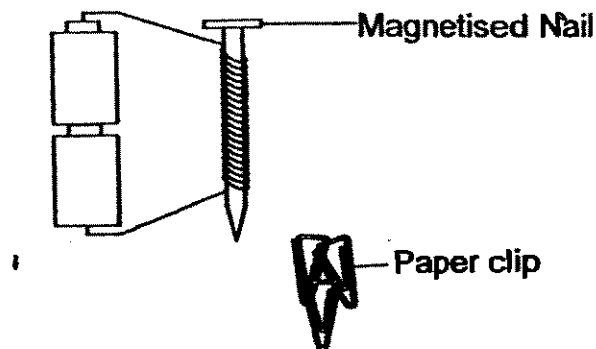
27. Everyday, all kinds of rubbish are thrown away. The crane shown below helps to sort the iron and steel objects from other things which are thrown away.



Which part of the crane contains a magnet?

- (1) A
(2) B
(3) C
(4) D
28. Objects can be magnetised by the stroking method or the electrical method.
Which one of the following objects is a non-magnetic object?
- (1) Iron nail
(2) Steel rod
(3) Nickel coin
(4) Gold necklace

29. Weili sets up an experiment as shown below.



What happens when Weili brings the tip of the magnetised nail close to the paper clips?

- (1) Nothing happens.
- (2) The magnetised nail makes the paper clips warm.
- (3) The paper clips are attracted to the magnetised nail.
- (4) The paper clips move away from the magnetised nail.

30. Observe the two pictures below.



Animal X



Animal Y

Based on your observation, which of the following statements are correct?

- A: Animal X has four legs while Animal Y has two legs.
- B: Animal Y has a beak while Animal X does not have one.
- C: Animal X lives on land while Animal Y lives on land and water.
- D: Animal X has spots on his body while Animal Y does not have any.

- (1) A and B only
- (2) C and D only
- (3) A, B and D only
- (4) B, C and D only

END OF PART I



Maha Bodhi School
2007 Semestral Assessment 2
Science

Name : _____ ()

Class : Pr 3 ()

Duration : 1 h 30 min (Parts I & II)

Date : 31 Oct 2007

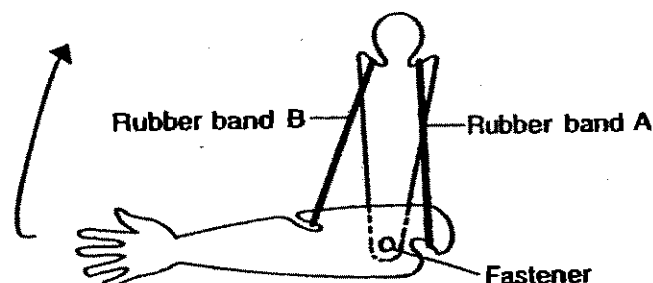
Parent's Signature : _____

Part I (60 marks)	
Part II (40 marks)	
SA 2 (100 marks)	

Part II: (40 marks)

Write your answers to questions 31 to 40 in this script.

31. Joe made a model of an arm as shown in the diagram below.



(a) Which body system does the above model represent? [1]

(b) What do rubber bands A and B represent? [1]

(c) What happens to rubber bands A and B when Joe lifts the model hand upwards? [2]

(i) Rubber Band A: _____

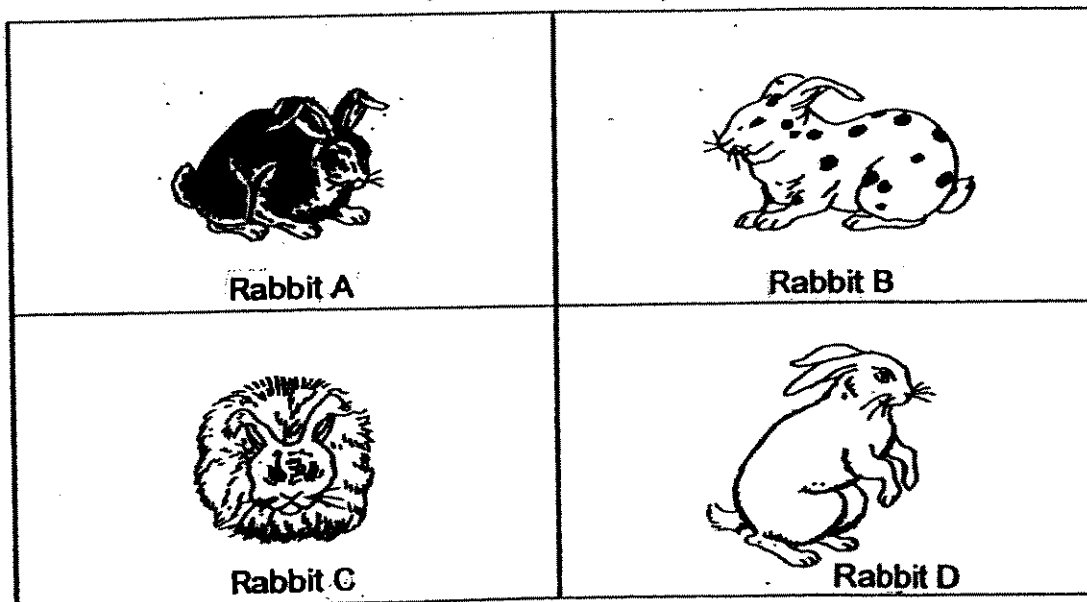
(ii) Rubber Band B: _____

32. The diagram below shows a baby rabbit.



Baby rabbit

(a) Which of the two rabbits A, B, C and D shown below are most likely to be baby rabbit's parents? [2]



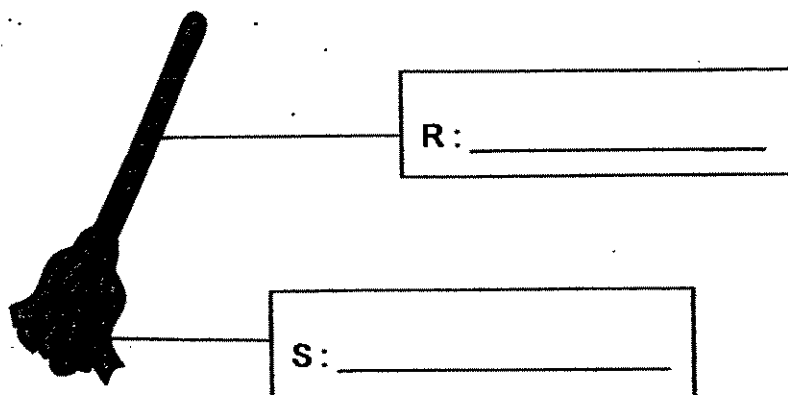
(b) Why do you think the rabbits that you have chosen in (a) are baby rabbit's parents? [2]

33. (a) Marie accidentally spilled some orange juice on the floor. She found a towel and a piece of cardboard on the dining table nearby.

(i) Which one of the two items should Marie use to dry the floor? [1]

(ii) Give a reason for your answer in (a). [1]

(b) Name the material used to make part R and S of the mop. [2]



34. Ali is given two glasses of liquids. One glass contains lemon juice and the other glass contains watermelon juice.

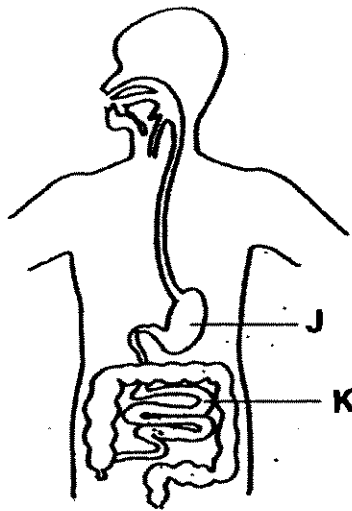
(a) Name two other sense organs that Ali can use to tell them apart besides the nose.

(i) _____ [2]

(ii) _____

(b) Explain how Ali would use one of the sense organs in (a) to tell the liquids apart. [2]

35. Study the diagram below.



(a) What is the system shown in the above diagram?

[1]

(b) Name parts J and K of the above system. [2]

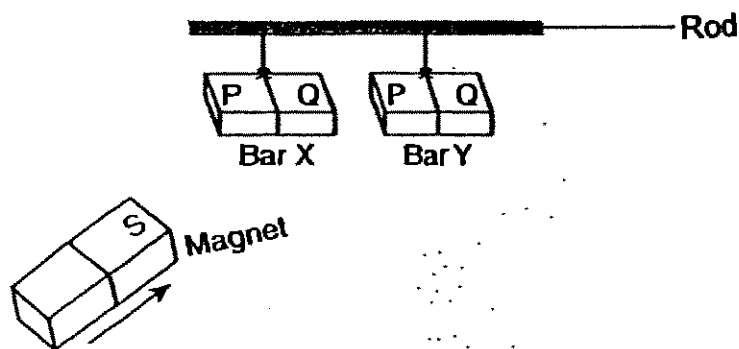
J : _____

K : _____

(c) State one similarity between parts J and K in terms of their function.

[1]

36. ^{two} Sam has ~~three~~ bars X and Y. He hung the two bars onto a rod as shown below. He labelled the ends of each bar P and Q. He then brought the south-seeking pole of a magnet near the ends of each bar.



He observed what happened to each bar and recorded the results as shown in the table below.

Bars	What happened between	
	magnet and P	magnet and Q
X	Attracted	Attracted
Y	Nothing happened	Nothing happened

- (a) Give an example of the material that each bar is made from. [2]

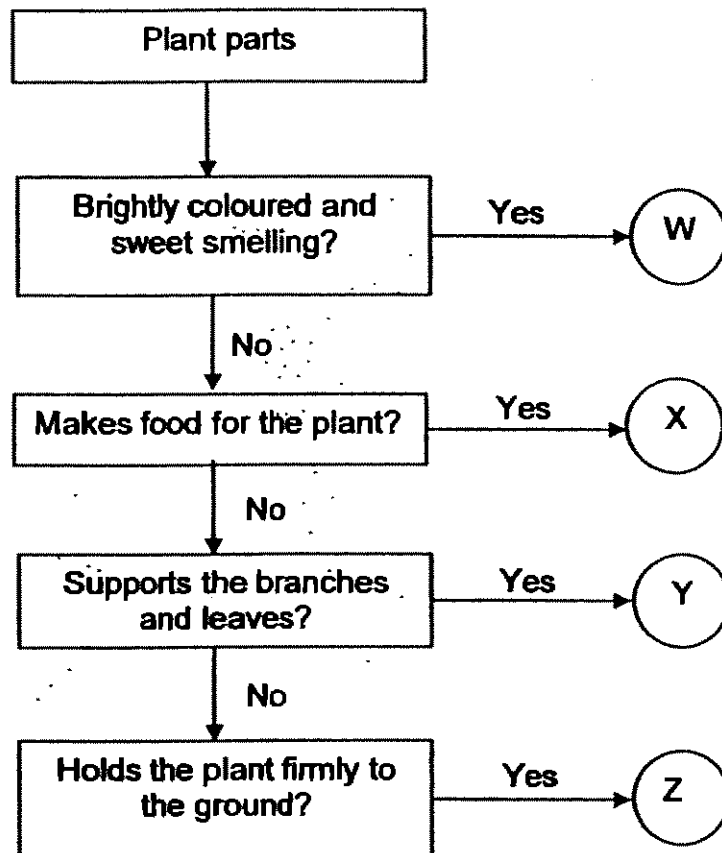
X : _____

Y : _____

- (b) Which bar can be magnetised? [1]

- (c) Describe one method on how this bar can be magnetised. [1]

37. Observe the binary key of the parts of a plant as shown below:



Identify the parts of the plants as given above.

[4]

(i) W: _____

(ii) X: _____

(iii) Y: _____

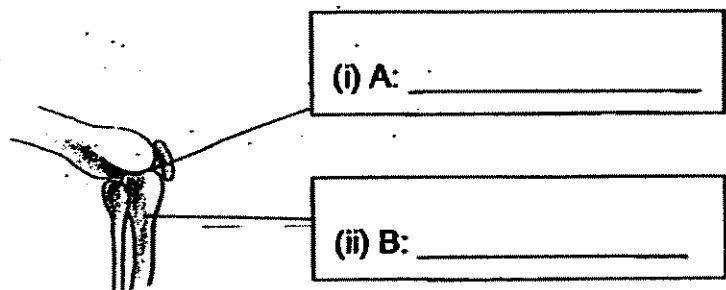
(iv) Z: _____

38. The muscular system helps you to move by pulling your bones. Match each of the following action to the muscle that is used. [4]

Lifting a school bag	• Abdominal muscle
Smiling	• Leg muscle
Kicking a ball	• Facial muscle
Bending over	• Arm muscle

39. Jimmy is a school athlete. He runs every evening to train up for competitions.

(a) Name the parts A and B of Jimmy's legs in the boxes below. [2]



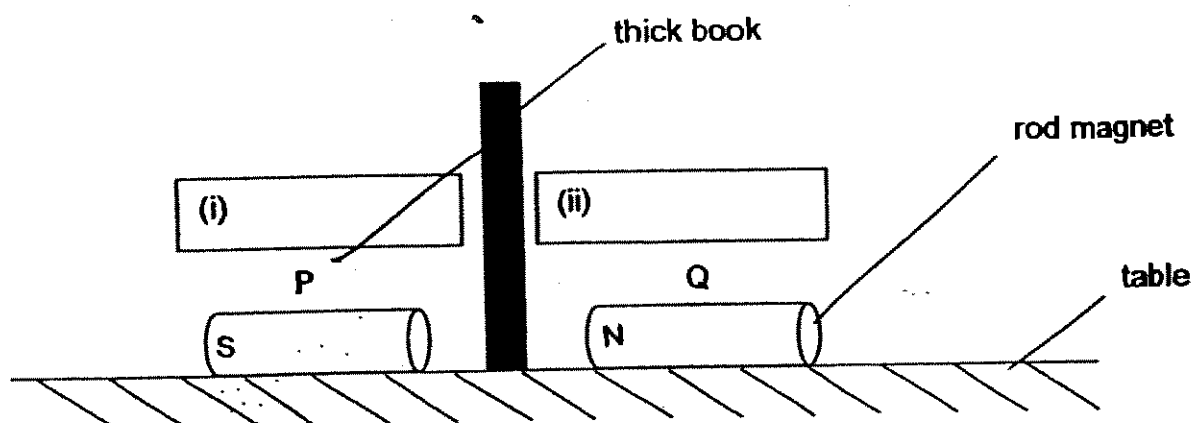
Knee

- (b) Jimmy's doctor has advised him to cut down his jogging to three times a week. He explained that over time, jogging too often is not good for his knees.

(i) Which part of his knees in (a) is more likely to be injured after some time? [1]

(ii) Can the knees be rotated around in all directions? Give a reason for your answer. [1]

40. Two rod magnets P and Q are placed on a table shown below.



- (a) In which direction(s) will each magnet move if the thick book is removed?
Indicate your answer with an arrow in each of the boxes above. [2]

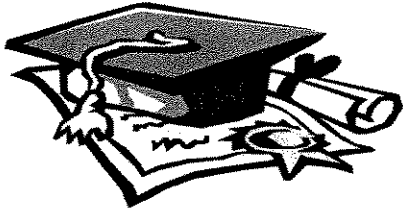
- (b) State one property of magnets that caused the movement in (a). [1]

- (c) What will happen if the poles of rod magnet P were turned around? [1]

END OF PAPER

"Have you checked your work?"



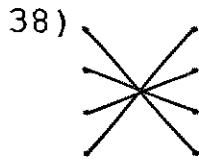


ANSWER SHEET

MAHA BODHI PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 3
2. 3
3. 2
4. 2
5. 3
6. 4
7. 2
8. 4
9. 4
10. 1
11. 1
12. 4
13. 4
14. 4
15. 4
16. 4
17. 4
18. 3
19. 2
20. 2
21. 4
22. 2
23. 3
24. 1
25. 2
26. 3
27. 4
28. 4
29. 3
30. 3
- 31) a) The Muscular, system.
b) A and B represents the bicep and the tricep.
c) i) relaxes ii) contracts
- 32) a) Rabbit B and C.
b) Rabbit B had spots like the baby rabbit. Rabbit C is as hairy as the baby rabbit.
- 33) a) i) The towel.
ii) The towel can absorb more than the cardboard.
b) R: wood S: cloth
- 34) a) i) eyes ii) tongue
b) He would use his tongue to taste the liquids. The liquid that taste sour is the lemon juice while the liquid that taste sweet is the water melon.
- 35) a) The digestive system.
b) J: Stomach K: Small intestine
c) Both part J and K breaks down the food.
- 36) a) X: steel Y: aluminium
b) Bar X
c) Stroke bar X in the same direction With one pole of a magnet.

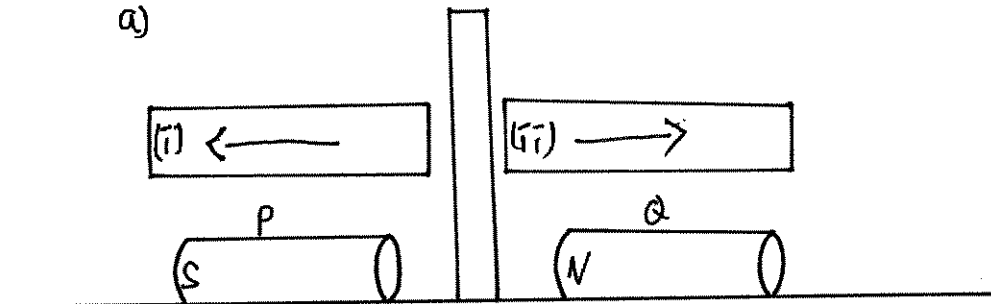
- 37) i) flowers ii) leaves
 iii) stem iv) roots



- 39) a) i) joint ii) shin bone
 b) i) Part A.
 ii) No, It can only move in one direction.
 No, it is a hinge joint.

- 40) b) Like poles will cause the magnet to repel.
 c) Rod magnet Q will be attracted to rod magnet P.

a)



**METHODIST GIRLS' SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 2 – 2007
PRIMARY 3
SCIENCE**

BOOKLET A

Name : _____ ()

Class : **Primary 3.** _____

Date : **8th October 2007**

Section A : (30 x 2 marks)

For each question, four options are given. Choose the most suitable option and shade your answer in the Optical Answer Sheet (OAS) provided.

1. John is a newborn baby. His length is monitored for a period of 4 months. The table below shows his length within the period.

Month	Length (cm)
1 st	51.0
2 nd	54.2
3 rd	59.5
4 th	63.0

Based on the information given above, which of the following statements can be concluded?

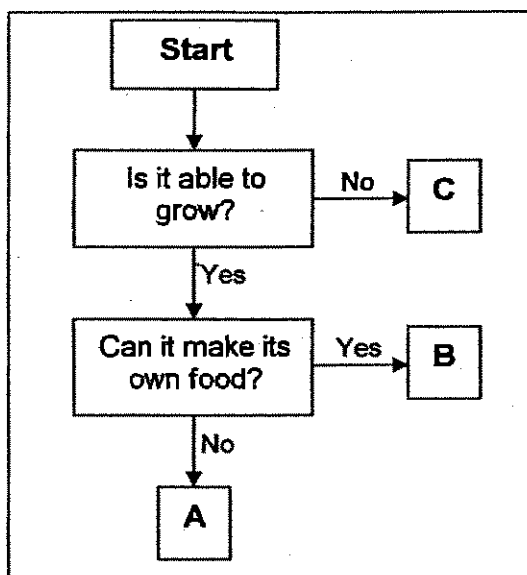
- (1) John's height increases as he grows.
 - (2) John's height decreases as he grows.
 - (3) John needs air, water and food to grow.
 - (4) John needs air, water and sunlight to grow.
2. Suzie made some observations on two things, Y and Z. Then, she recorded her observations in the table below.

	Y	Z
Will it die?	No	Yes
Can it reproduce?	No	Yes
Can it move on its own?	No	Yes
Does it respond to touch?	Yes	Yes

From the table above, what can you conclude about Y and Z?

- (1) Both Y and Z are living things.
- (2) Both Y and Z are non-living things.
- (3) Y is a living thing but Z is a non-living thing.
- (4) Z is a living thing but Y is a non-living thing.

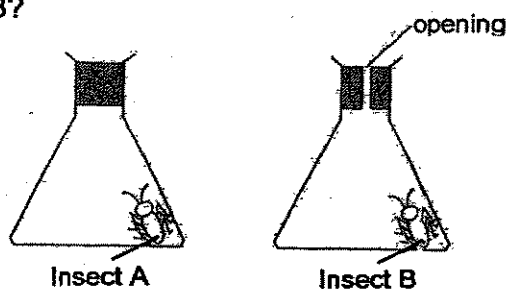
3. Study the flow chart below.



Which of the following represents A, B and C correctly?

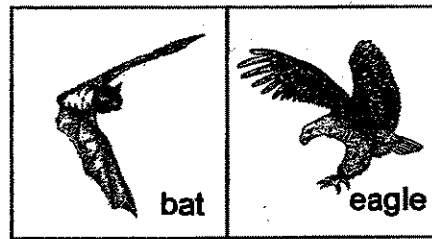
	A	B	C
(1)	Lorry	Mushroom	Bird's nest fern
(2)	Bird's nest fern	Lorry	Mushroom
(3)	Mushroom	Bird's nest fern	Lorry
(4)	Mushroom	Lorry	Bird's nest fern

4. In the diagram below, what is the most likely reason for Insect A to die before Insect B?



- (1) It did not have enough air.
- (2) It did not have enough food.
- (3) It did not have enough water.
- (4) It did not have enough sunlight.

5. Some comparisons between a bat and an eagle were recorded in the table below.



Which of the following pairs shows the correct comparison between the bat and the eagle?

	Similarity	Difference
(1)	Both have a pair of wings.	The bat gives birth to its young alive but the eagle lays eggs.
(2)	Both have feathers as their outer body coverings.	The bat breathes through its lungs but the eagle breathes through its gills.
(3)	Both have a beak each.	The bat lives in water but the eagle lives on land.
(4)	Both are birds.	The bat is covered with hair but the eagle is covered with feathers.

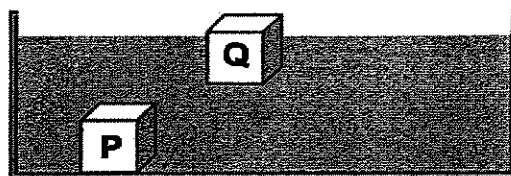
6. Which of the following statement/s concerning photosynthesis is/are true?

- A : Oxygen is needed.
 B : Water must be present.
 C : Sunlight must be present.
 D : Carbon dioxide is needed.

- (1) A only
 (2) D only
 (3) B and C only
 (4) B, C and D only

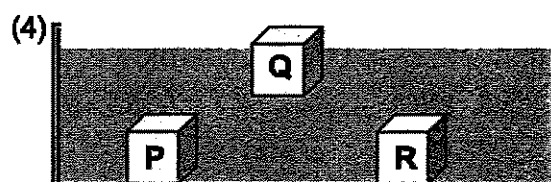
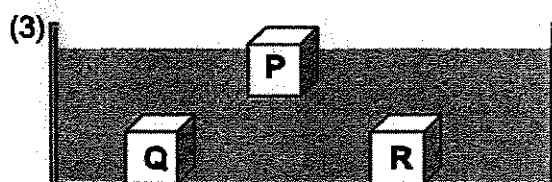
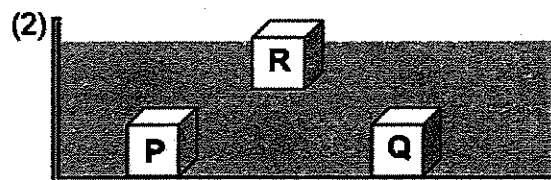
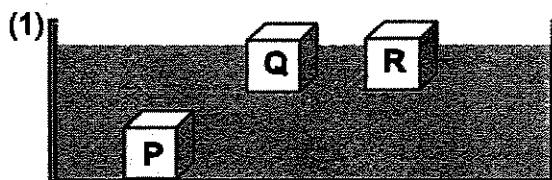
For questions 7 and 8, refer to the following:

Jane placed 2 objects, P and Q, of similar shape and size in a basin of water. The diagram below shows what she observed a few minutes after placing the objects in the water.



Then, Jane placed another object, R, of similar shape and size but is heavier than object P into the basin of water.

7. Which of the following diagrams shows the position of the three objects correctly?



8. Based on Jane's observation, which of the following combinations is most likely to be correct?

	P	Q	R
(1)	Iron	Cork	Glass
(2)	Glass	Cork	Iron
(3)	Cork	Iron	Glass
(4)	Cork	Glass	Iron

9. Susan observed Animal X and made the following observations:

- It has scales.
- It has a backbone.
- It does not have hair.
- It does not have legs.

What can Animal X most likely be?

- (1) Fish
- (2) Bird
- (3) Insect
- (4) Mammal

10. Mary collected some data on the growth of a string bean plant. She recorded the data in the table below.

Date	Observation
1.8.07	Seed planted in soil
6.8.07	'A' appeared
11.8.07	Leaves appeared
27.8.07	'B' appeared
20.9.07	Fruit appeared

Based on the data recorded in the table, on which date did the flowers appear?

- (1) 6.8.07
- (2) 11.8.07
- (3) 27.8.07
- (4) 20.9.07

11. The table below shows properties which some materials possess.

Material	Is it cheap?	Is it waterproof?
A	Yes	Yes
B	No	Yes
C	No	No

Mr Raymon owns a factory which manufactures plastic bags.
Which of the above materials would Mr Raymon most probably use to make the plastic bags?

- (1) A only
- (2) B only
- (3) C only
- (4) A, B and C

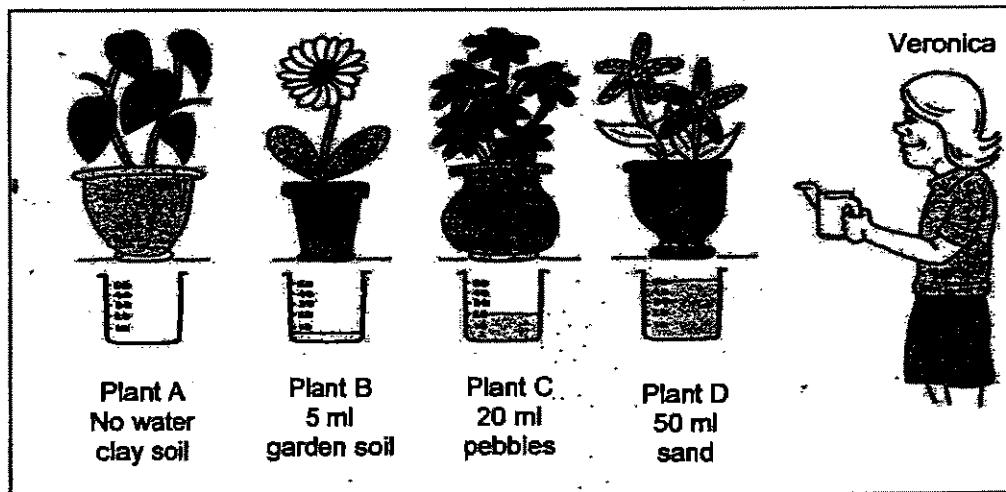
12. The table below shows the description of four girls.

Name	Description
Alice	Has long hair
Betty	Has long fingernails
Claire	Has large brown eyes
Denise	Has free-hanging ear lobes

Who have characteristics inherited from their parents?

- (1) Alice and Betty
- (2) Betty and Claire
- (3) Denise and Alice
- (4) Claire and Denise

13. Veronica carried out an experiment to find out what type of soil was suitable for growing plants. She planted four different types of plants in different types of soil and pots. She added different amount of water to Plant B, C and D but none to Plant A.

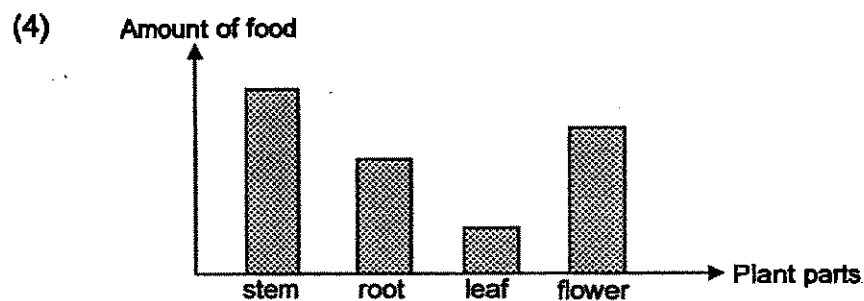
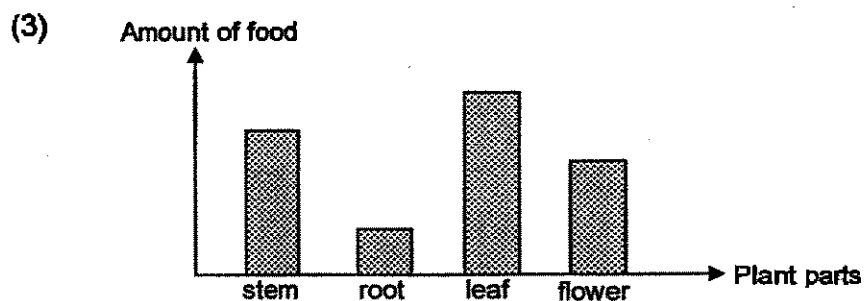
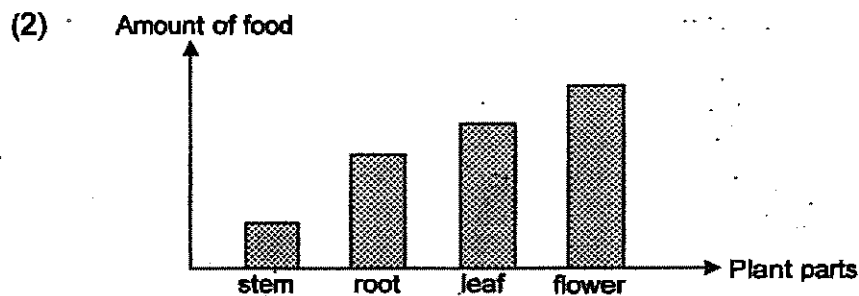
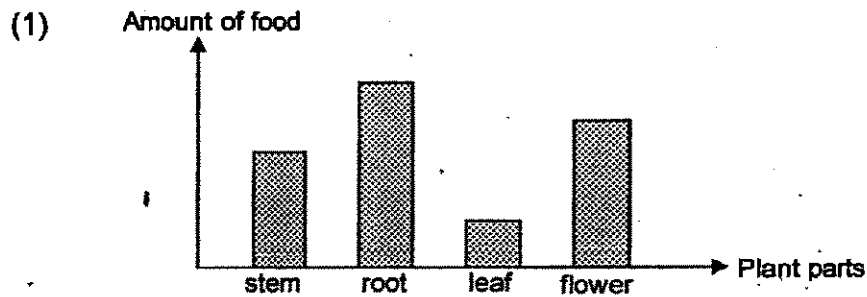


Which of the following reasons best explain why the above experiment was not a fair test?

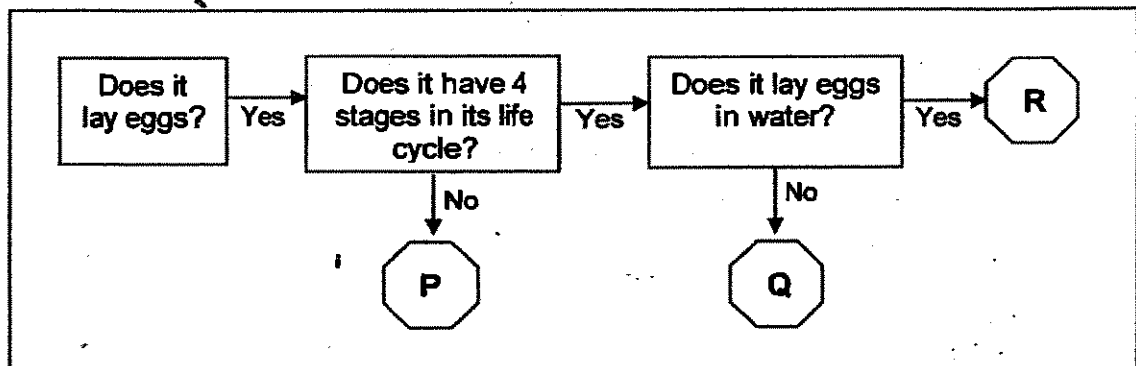
- A : The type of soil used was different.
- B : The type of pot used was different.
- C : The type of plant used was different.
- D : The amount of water given to each plant was different.

- (1) A and B
- (2) B and C
- (3) A, B and C
- (4) B, C and D

14. Food is made when a rose plant carries out photosynthesis. Which of the graphs below represents the correct amount of food in the different parts of the rose plant on a sunny day?



Study the flow chart below and answer questions 15 and 16.



Three pupils made some statements based on the flow chart above.

Ahmad : Animal P has 4 stages in its life cycle but Animal Q does not.

Nora : Animals P, Q and R do not give birth to their young live.

Bala : Animal R lays its eggs in the water but Animal Q does not lay its eggs in the water.

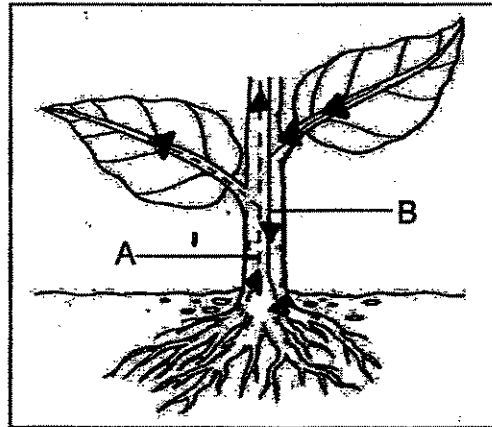
15. Who made the correct statement/s?

- (1) Nora and Bala
- (2) Bala and Ahmad
- (3) Nora and Ahmad
- (4) Ahmad, Nora and Bala

16. Based on the flow chart above, what could Animal P, Q and R be?

	P	Q	R
(1)	Chicken	Butterfly	Mosquito
(2)	Butterfly	Chicken	Mosquito
(3)	Mosquito	Chicken	Butterfly
(4)	Mosquito	Butterfly	Chicken

17. Tiny tubes A and B are found in the stem of a plant. The arrows in the diagram below show the movement of substances in the plant.



The following statements are made by three pupils.

Tube A carries water and food from the roots to the other parts of the plants.



Jane

Tube A carries water from the roots to the other parts of the plants.



Lily

Tube B carries food from the leaves to the other parts of the plants.

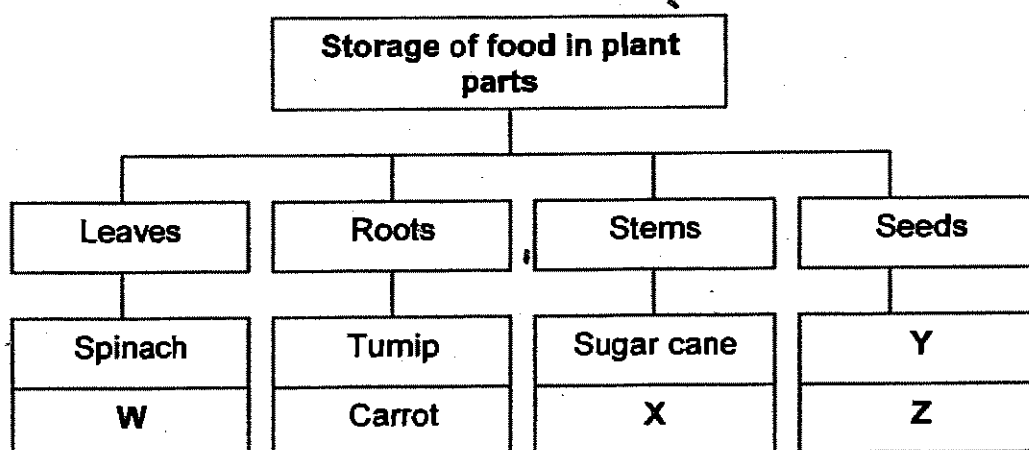


Sandra

Who made the correct statement/s?

- (1) Jane and Lily
- (2) Lily and Sandra
- (3) Sandra and Jane
- (4) Jane, Lily and Sandra

18. Study the classification chart below.



Which of the information below can be obtained from the chart above?

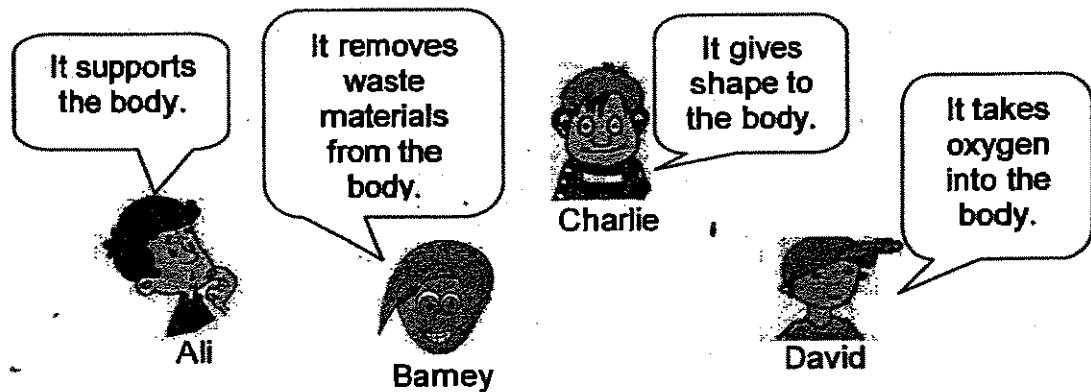
- A : W and X are different because they store food in different parts.
- B : Some plants such as the turnip and carrot store food in their roots.
- C : Y and Z are similar because both store food in their seeds.

- (1) A and B
 (2) B and C
 (3) C and A
 (4) A, B and C

19. Which of the following lists is wrong?

	Organ	Is food digested here?
(1)	Mouth	Yes
(2)	Gullet	Yes
(3)	Stomach	Yes
(4)	Small intestine	Yes

20. Four children, Ali, Barney, Charlie and David each made a statement about the human body systems.



Which two children were talking about the same system?

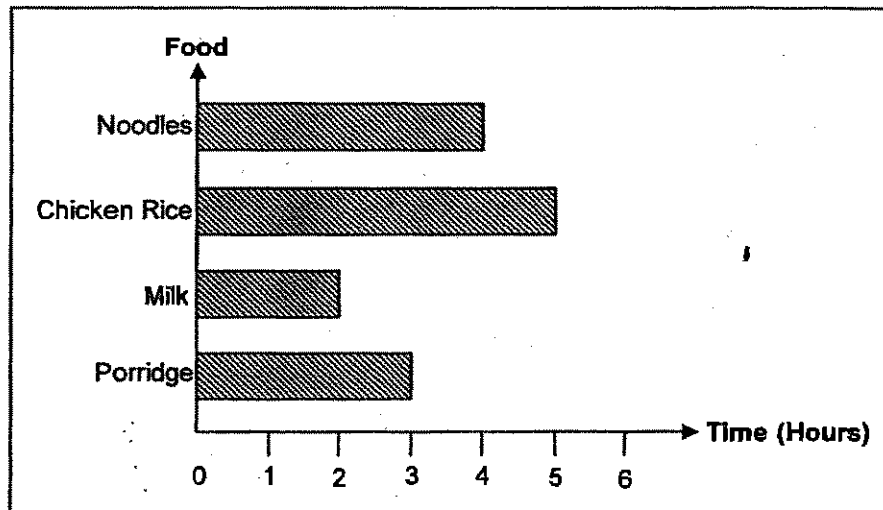
- (1) Ali and Barney
 - (2) Ali and Charlie
 - (3) Charlie and David
 - (4) Barney and Charlie
21. The account below was an extract from Nancy's diary.

Date	Problems Encountered
8 th October	I had food poisoning.
14 th October	I fell down and broke my ankle.
19 th October	I had a muscle pull and my shoulders were aching.
25 th October	I had a cut on my finger and it bled.

Which system in Nancy's body was affected on 25th October?

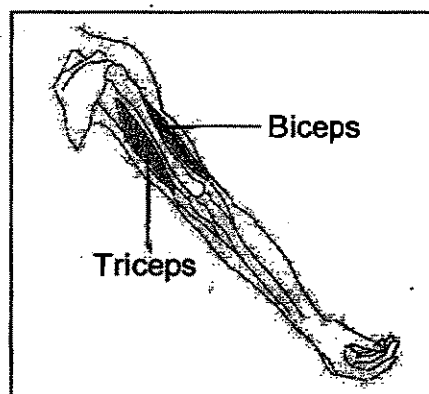
- (1) Skeletal System
- (2) Muscular System
- (3) Digestive System
- (4) Circulatory System

22. The graph below shows the time taken for the body to digest four different types of food.



Which food took the longest time to be digested in the body?

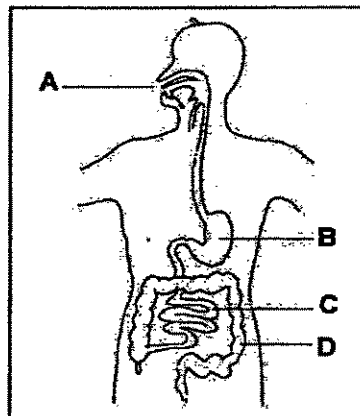
- (1) Milk
 - (2) Noodles
 - (3) Porridge
 - (4) Chicken Rice
23. The diagram below shows the bones and the muscles in our arm.



What happen to our arm when it is straightened?

- (1) Both the bicep and tricep relax.
- (2) Both the bicep and tricep contract.
- (3) The bicep contracts while the tricep relaxes.
- (4) The bicep relaxes while the tricep contracts.

For questions 24 and 25, refer to the diagram below.



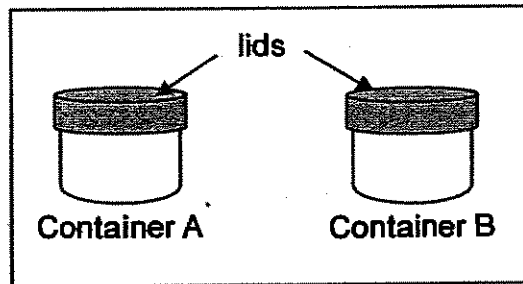
24. The diagram above shows a system in the human body.
At which part does digested food enter the blood stream?

- (1) A
- (2) B
- (3) C
- (4) D

25. What happens at D?

- (1) Food is further digested.
- (2) Food that is undigested is stored.
- (3) Digested food enters the blood vessels.
- (4) Water is removed from the undigested food.

26. Sandra's teacher gave her two similar metal containers, A and B. One container was half-filled with tissue paper and the other was half-filled with pebbles.



Sandra's teacher wanted her to find out which container was filled with pebbles without opening the lids.

Which of the following senses would help her to do so?

- (1) Sense of taste
- (2) Sense of sight
- (3) Sense of smell
- (4) Sense of hearing

27. Mrs Chan, a Science teacher, asked the class which sense organs were used to find out whether a certain type of food had turned bad.

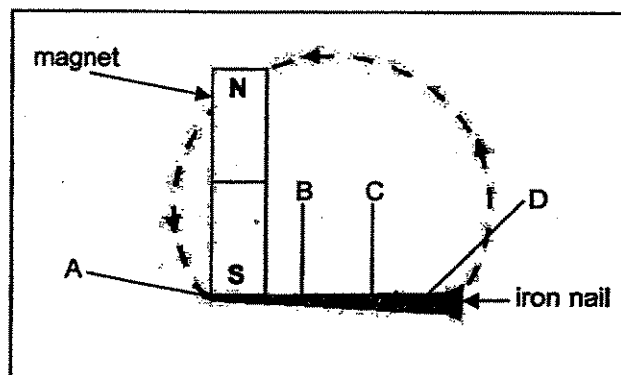
Four girls made the following statements.

Julia : We use our eyes.
Chloe : We use our ears.
Maria : We use our nose.
Kathy : We use our tongue.

Who made the correct statement/s?

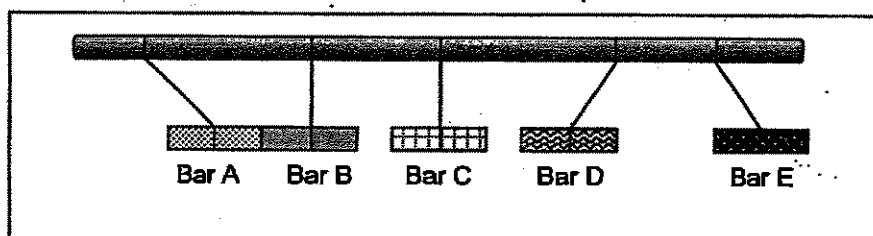
- (1) Julia and Chloe
- (2) Chloe and Kathy
- (3) Julia, Maria and Kathy
- (4) Julia, Chloe, Maria and Kathy

28. An iron nail was magnetised using the method as shown in the diagram below.



Which part of the iron nail would the N-pole be?

- (1) A
(2) B
(3) C
(4) D
29. The diagram below shows five metal bars of the same size tied to a pole.



What could Bar D and Bar E most likely be?

	Bar D	Bar E
(1)	Magnetic material	Magnet
(2)	Non-magnetic material	Magnetic material
(3)	Magnet	Magnet
(4)	Magnet	Non-magnetic material

30. Danny used a magnet to stroke each of the items below several times in one direction.

A : iron needle
B : copper nail ✗
C : plastic knife ✗
D : wooden chopstick ✗

Then he brought the items near a box of paper clips. He found that some of the items could not pick up any paper clips.

Which of the following statements explained his observation above correctly?

- (1) Only items that were sharp could be magnetised.
- (2) All items that were made of metal could be magnetised.
- (3) Some items that were made of metal could be magnetised.
- (4) Only items that were used as cutlery could not be magnetised.

METHODIST GIRLS' SCHOOL (PRIMARY)
SEMESTRAL ASSESSMENT 2 – 2007
PRIMARY 3
SCIENCE

BOOKLET B

Name : _____ ()

Class : Primary 3. _____

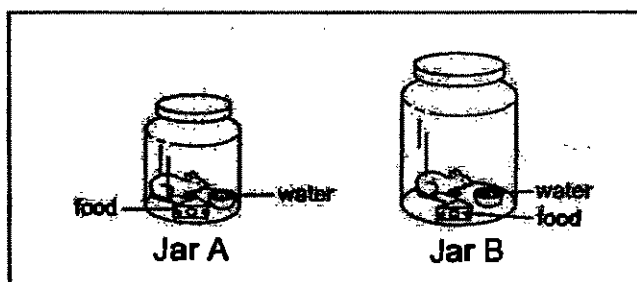
Date : 8th October 2007

Part	Maximum Marks	Marks Obtained
A	60	
B	40	
Total Marks	100	

Parent's Signature : _____

Section B : (40 marks)**Write the answers in the blanks provided.**

31. Shawn kept a rat in each of the airtight jars as shown in the diagram below. He gave both of them the same amount of water and food.



- a) He then made a prediction that the rat in Jar B would survive for a longer period of time.
Do you think he made the correct prediction? (1m)

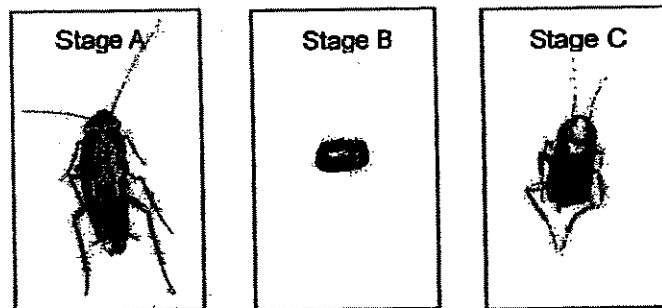
- b) Give a reason for your answer in a). (1m)

32. Linda wants to carry out an experiment to find out if bread mould grows faster in a dark box or in a refrigerator.

In the table below, tick (✓) the variables that she must keep the same or the variables that must be different in order to have a fair test. (2m)

Variables	Keep the same	Different
Size of bread		
Type of bread		
Place to put the bread		
Length of time to observe the bread		

33. The diagrams below show the stages in the life cycle of a cockroach.



- a) Name the stages in the boxes below.
(The first one is done for you.) (1m)

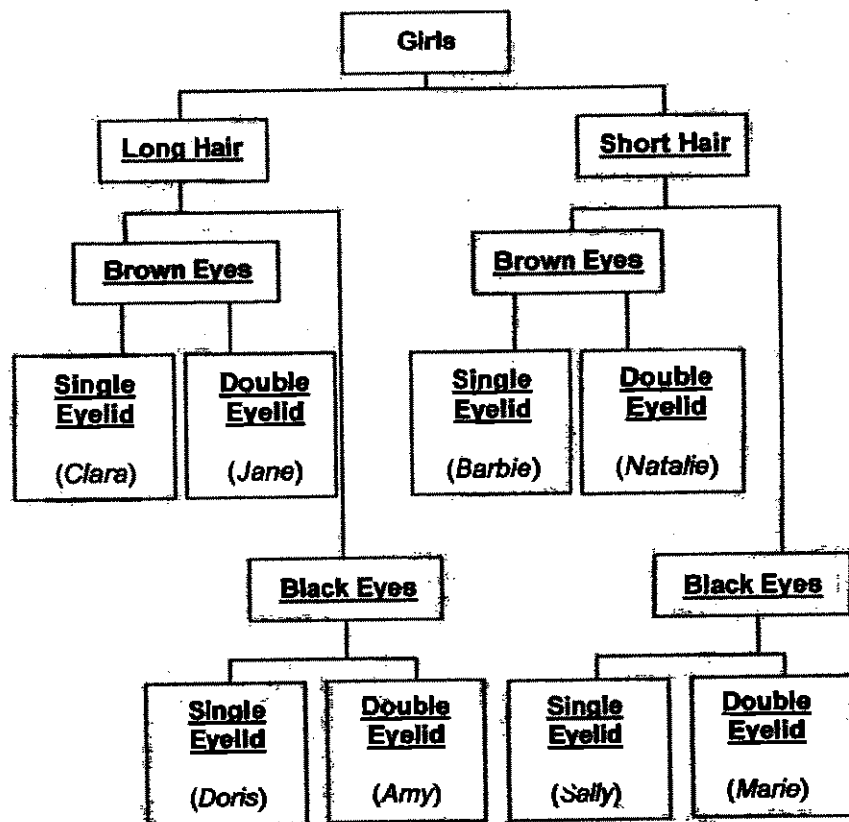
Stage A : Adult

Stage B : _____

Stage C : _____

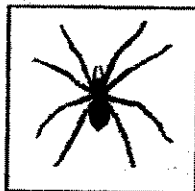
- b) Study the diagram and state one difference between Stage A and Stage C. (1m)

34. Study the description of some girls in the flow chart below.



- a) Which 2 headings, (in bold and underlined) are not characteristics that are inherited from the girls' parents? (1m)
- b) Give one similarity between Clara and Natalie. (1m)

35. The diagram below shows an animal.



Sheryl wants to find out whether the animal is an insect. She plans to do the following:

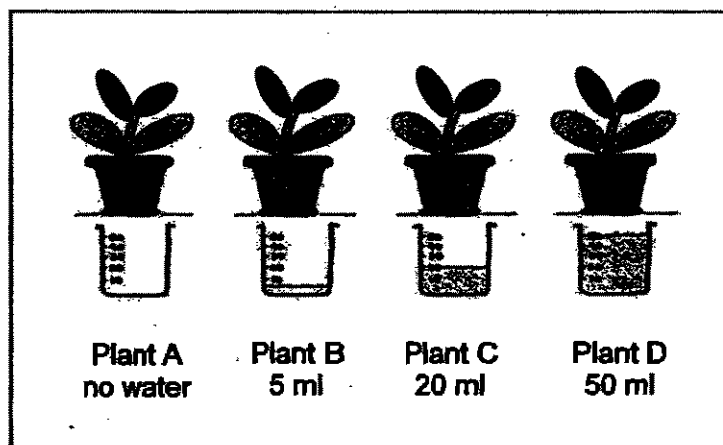
- | | | |
|--------|---|---|
| Step A | : | Measure its length |
| Step B | : | Check to see if it has <u>wings</u> |
| Step C | : | Check to see if it has <u>feelers</u> |
| Step D | : | Count to see if it has <u>six legs</u> |
| Step E | : | Examine it to see if it has <u>three body parts</u> |

- a) Which of the steps above are useful in determining if the animal is an insect? (1m)

- b) After examining the animal, Sheryl concluded that the animal above is not an insect. Do you agree with her? (1m)

- c) Give a reason for your answer in b). (1m)

36. Susan carried out an experiment to find out if plants needed water to grow. She had 4 similar potted plants in the same type of soil. She added different amount of water to Plant B, C and D but none to Plant A.



The table below shows the observations she recorded.

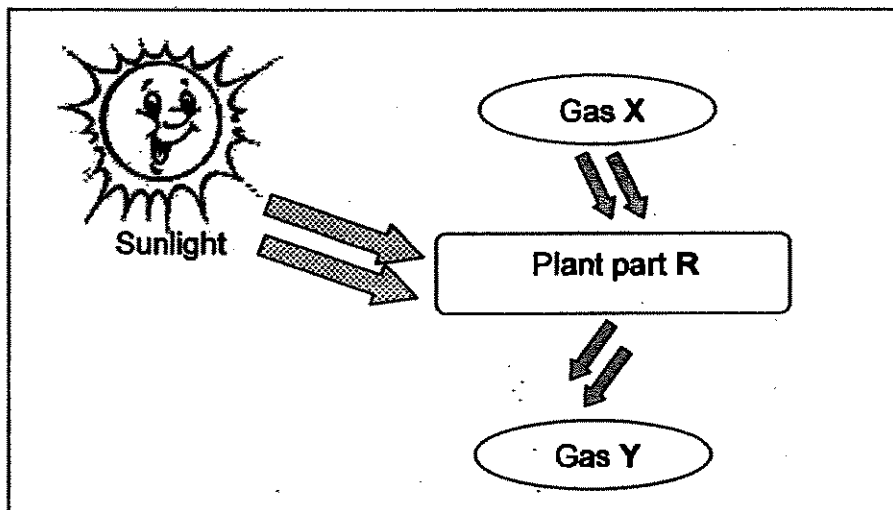
Plant	Height of plants (cm)			
	At start	Week 1	Week 2	Week 3
A	9 cm	dead	dead	dead
B	9 cm	10 cm	?	12 cm
C	9 cm	dead	dead	dead
D	9 cm	9 cm	dead	dead

- a) Susan had forgotten to write down the height for Plant B for Week 2. What do you think the height was? (1m)

- b) Is the experiment above a fair test? (1m)

- c) Give a reason for your answer in b). (1m)

37. The diagram below shows a certain part of a plant going through a process. During this process, Gas X is used up while Gas Y is released into the air.



- a) What could this process be? (1m)

- b) What could Gas X and Y be? (1m)

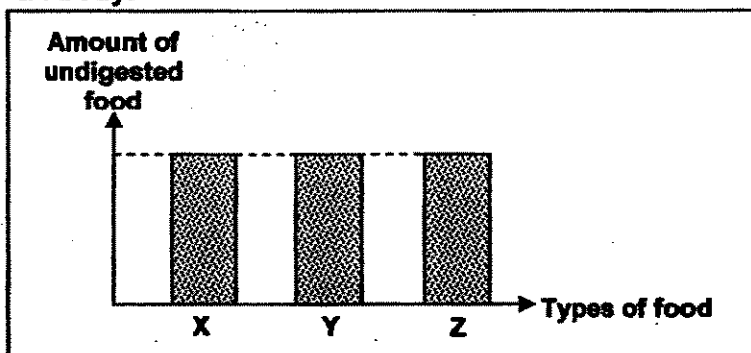
Gas X : _____

Gas Y : _____

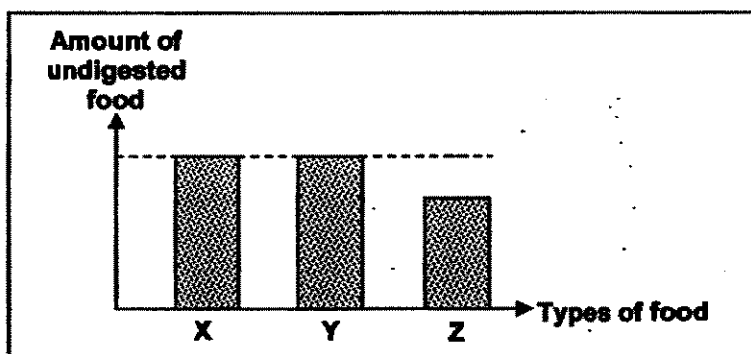
- c) In order to carry out this process, a green substance must be present in this plant part R.
What is this green substance called? (1m)

38. The graphs below show the amount of food, X, Y and Z which are being digested in a human body.

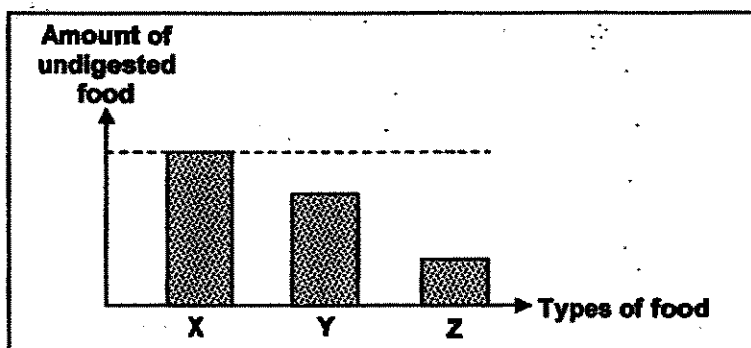
At the start:



In the mouth:

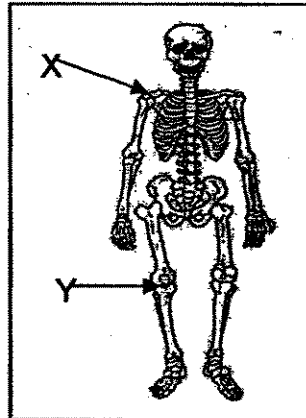


In the stomach:



- a) Which type/s of food X, Y or Z only start/s being digested in the stomach? (1m)
- b) In which system in the body does the above process take place? (1m)
- c) What is the function of the system in your answer in b)? (1m)

39. Look at the diagram below.



- a) The parts marked X and Y are places where bones meet and are connected to one another. What are they called? (1m)

- b) Why are the part marked X and Y important to us? (1m)

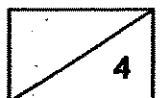
40. The diagram below shows a human skull.



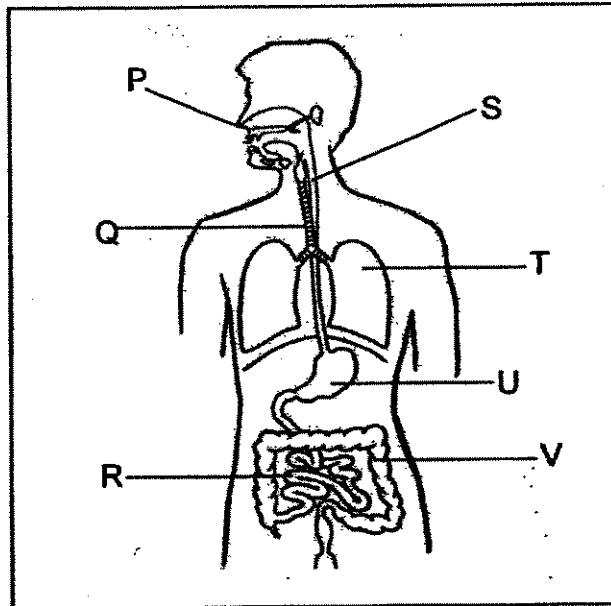
- a) Name 2 organs that are found in the skull. (1m)

_____ and _____

- b) Why is the skull important to the organs that you have mentioned in a)? (1m)



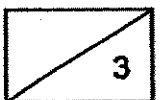
41. Study the diagram below.



a) Which three organs, labelled P to V above, belong to the respiratory system? (2m)

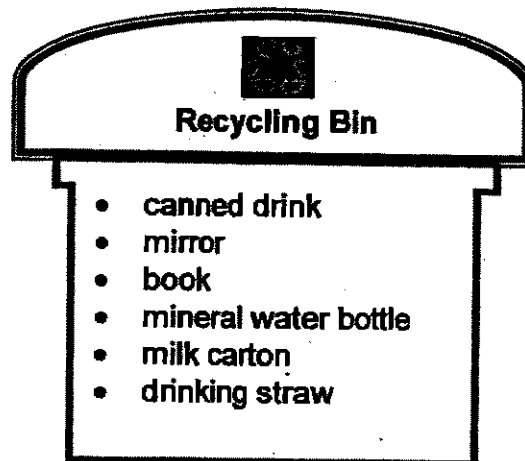
- i) _____
- ii) _____
- iii) _____

b) Why is the respiratory system important to us? (1m)



42. In a Science lesson, Wei Mun learnt that before waste could be recycled, the waste must first be sorted into groups according to the materials they are made of.

Below is a list of things that Wei Mun found in a recycling bin.



Based on the materials they are made of, put the items listed above in the correct groups below. (3m)

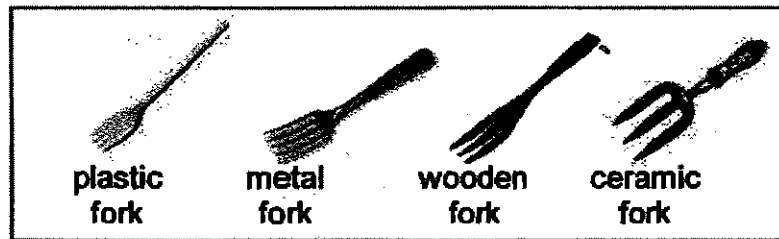
Plastics

Metal

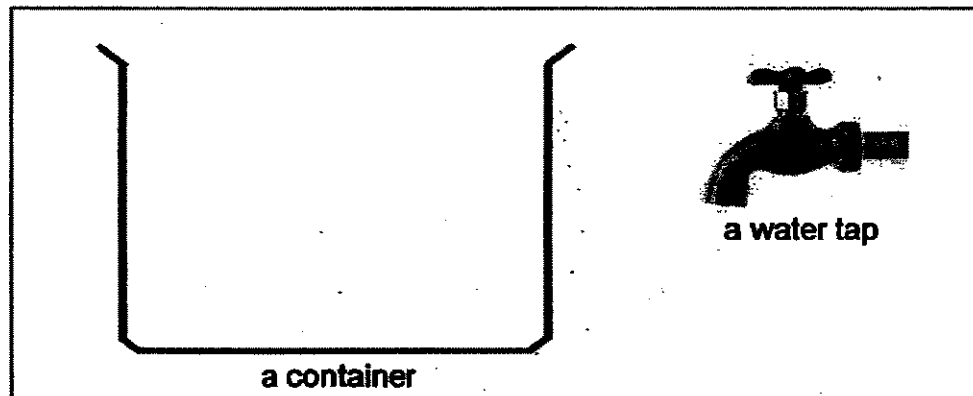
Glass

Paper

43. Grace had some forks made of different materials and of different sizes.



She wanted to find out if the different forks float or sink in water. She was given the following items:



- a) List two steps she should take to find out which fork would sink or float. (2m)

Step 1: _____

Step 2: _____

- b) Which two forks would definitely sink? (1m)

- c) Grace's teacher said that her test was not fair. What must she do to ensure that it was a fair test? (1m)

44. Susan and her friends learnt that a magnet could lose its magnetism in various ways. They were given the items below.



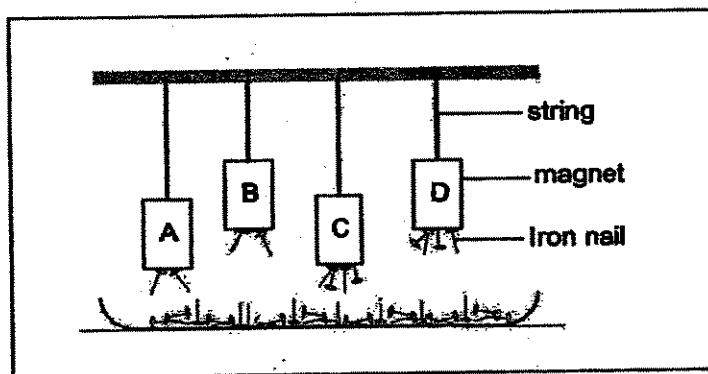
- a) By referring to the items above, what could they do to make the bar magnet lose its magnetism? (1m)

- b) Then, they listed down other ways in which a magnet could lose its magnetism as shown in the table below.

Put a (✓) for a true statement and a (X) for a false statement in the boxes below. (2m)

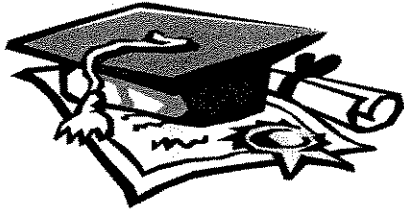
	Ways in which a magnet could lose its magnetism	✓ or X
i)	Drop the magnet several times on the floor.	
ii)	Wrap the magnet with a piece of handkerchief.	
iii)	Heat the magnet over a candle flame for a few minutes.	
iv)	Place the magnet in a cool and dry place for a few minutes.	

45. Fannie hung 4 magnets of different strength, A, B, C and D above a tray of iron nails. The magnets were hung at different distances above the tray. The diagram below shows the number of iron nails that were attracted by each magnet.



- a) Which magnet has the strongest magnetic strength? (1m)
-
- b) Which magnet has the weakest magnetic strength? (1m)
-
- c) Her teacher said that this was not a fair test to find out the magnetic strength of a magnet. What could Fannie do to make the test above a fair one? (1m)
-
-

End of Paper
Have you checked through your work?



ANSWER SHEET

M G S PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 1

2. 4

3. 3

4. 1

5. 1

6. 4

7. 4

8. 2

9. 1

10. 3

11. 1

12. 4

13. 4

14. 3

15. 1

16. 1

17. 2

18. 4

19. 2

20. 2

21. 4

22. 4

23. 4

24. 3

25. 4

26. 4

27. 3

28. 4

29. 3

30. 3

31) a) Yes.

b) Because there is a bigger space in Jar B and there should have more air.

32) ✓

✓

✓

✓

33) a) A: Adult B: Egg C: Nymph

b) The nymph which is stage C has no wings but the adult which is stage A has wings.

34) a) long hair and short hair.

b) The both have brown eyes.

35) a) Step C, D and E are useful in determining if the animal is a insect.

b) Yes.

c) Because it has four pairs of legs and it has two body parts.

36) a) 11cm

b) Yes

c) Because she planted four similar plants, the pots were the same size and the soil was the same.

- 37) a) Photosynthesis
b) X: Carbon dioxide
Y: Oxygen
c) Chlorophyll
- 38) a) Y only starts being digested in the stomach.
b) Digestive system.
c) To break down the food into simpler substances for the body.
- 39) a) Joints.
b) They help us to move.
- 40) a) brain and eyes.
b) It help to protect them organs.
- 41) a) i) Q ii) T iii) P
b) It exchanges gases with the air that we breathe.
- 42) Plastics: drinking straw, mineral water bottle
Metal : canned drink
Glass : mirror
Paper : milk carton, book
- 43) a) 1) She should turn on the tap and let the water flow into the container.
2) Then, she should put the fork into the container.
b) The metal fork and the ceramic fork.
c) She should make sure that the forks are made of the same size.
- 44) a) Use the hammer to hit the magnet several time.
b) i) ✓ ii) x iii) ✓ iv) x
- 45) a) Magnet D
b) magnet A
c) Fannie should make the length of the strings all the same.



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT 2

2007

Name : _____ Index No: _____ Class: P3_____

25th Oct 2007

SCIENCE

Att: 1 h 15 min

SECTION A (24 x 2 marks)

For each question from 1 to 24, four options are given.

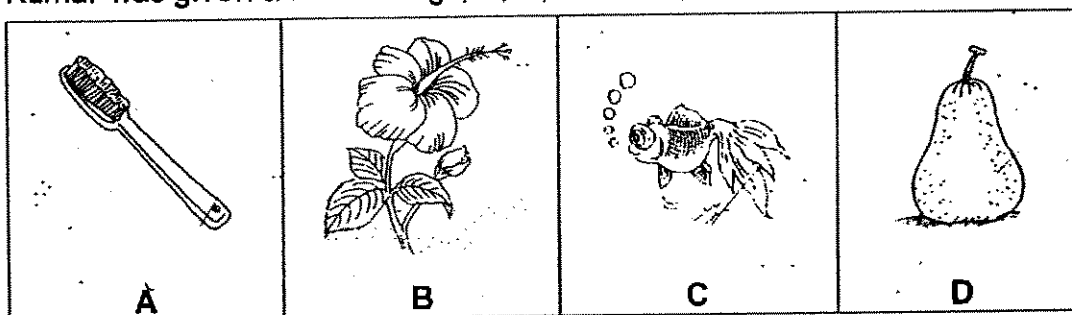
One of them is the correct answer.

Make your choice (1, 2, 3 or 4).

Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet (OAS) provided.

Section A	48	
Section B	32	
Your score out of 80 marks		
	Class	Level
Highest score		
Average score		
Parent's signature		

1. Kumar was given a list of things, A, B, C and D, as shown below.

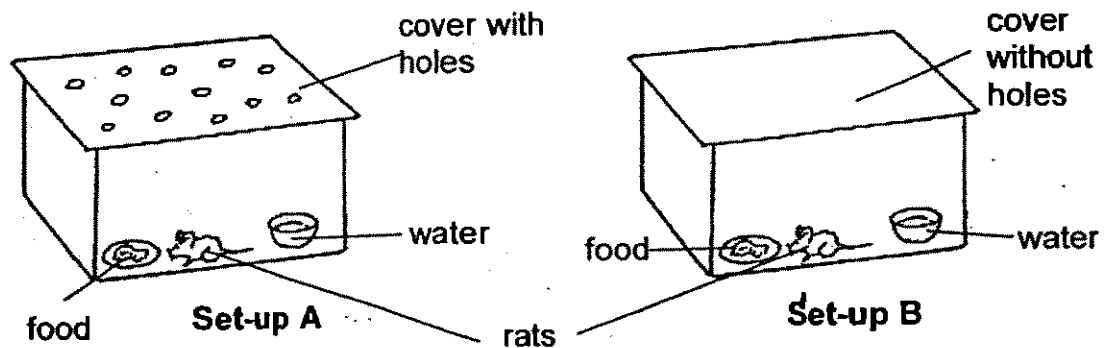


Kumar classified the things into 2 different groups.

Which one of the following shows the correct classification?

	living things	non-living things
(1)	A, B	C, D
(2)	A, D	B, C
(3)	B, C	A, D
(4)	C, D	A, B

2. Johnny set up an experiment using rats of similar size and breed, and the apparatus as shown below.



Using the information given above, what was the purpose of Johnny's experiment?

He was trying to find out if all living things need _____.

- ☒ (1) air
- ☒ (2) food
- ☒ (3) water
- ☒ (4) sunlight

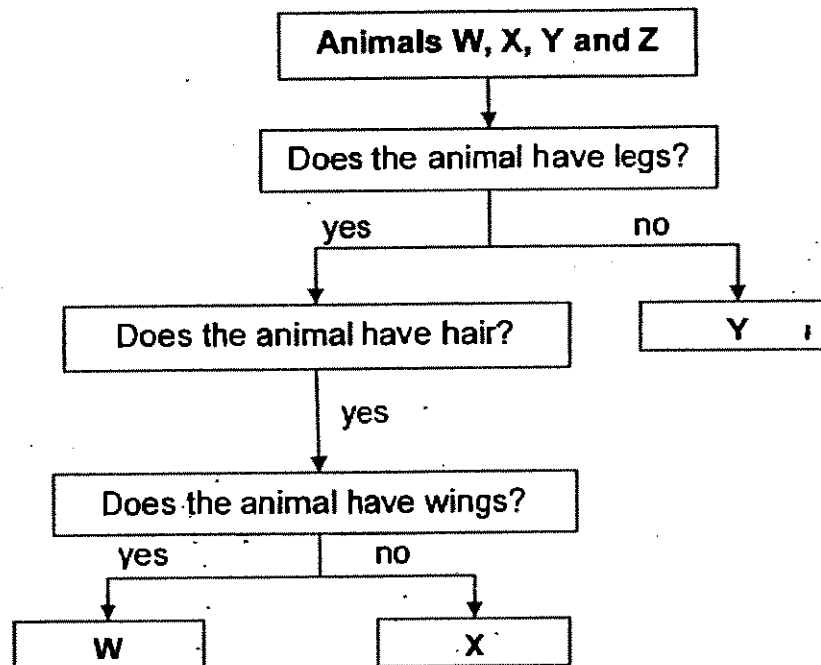
3. Susan observed some animals and grouped them into 3 different groups, A, B and C, as shown below.

Group A	Group B	Group C
dolphin	crab	emu
monkey	prawn	chicken
platypus	tortoise	sparrow

Based on the information above, how did Susan group the animals?

- ☒ (1) according to where they live
- ☒ (2) according to the way they move
- ☒ (3) according to the type of food they eat
- ☒ (4) according to the type of body coverings they have

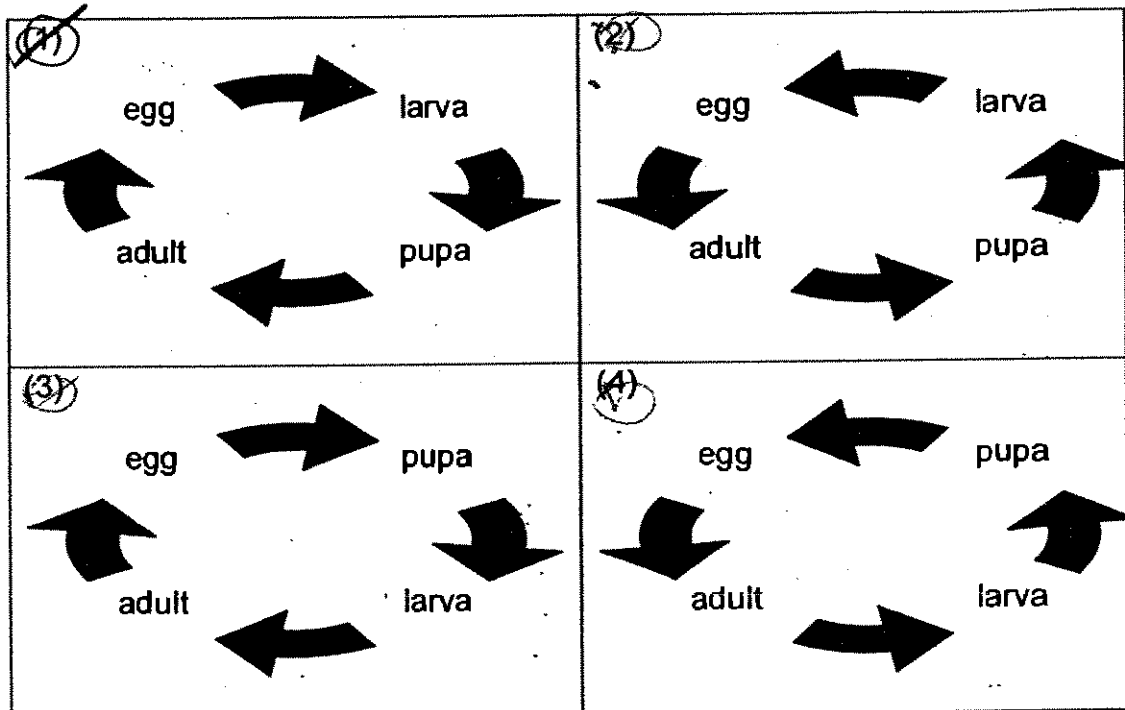
4. The chart below shows how some animals are differentiated.



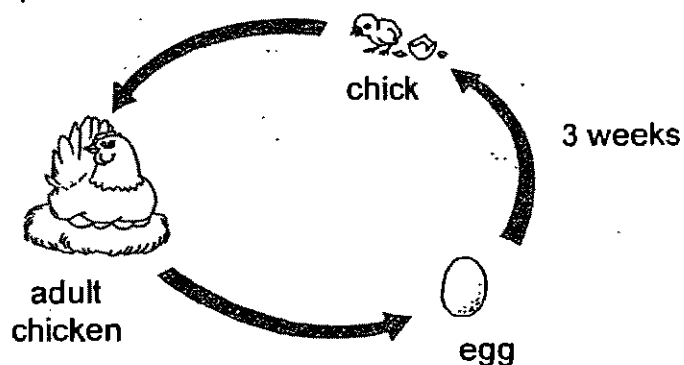
Based on the information above, which one of the animals is best represented by W?

- (1) bat
- (2) guppy
- (3) penguin
- (4) platypus

5. Which one of the following shows the correct life cycle of a butterfly?



6. In the laboratory, a group of pupils was shown the life cycle of a chicken as shown below.



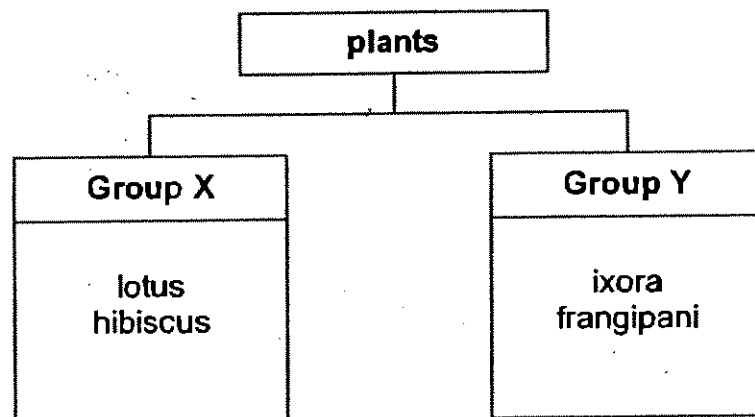
This group of pupils made the following statements:

- A A chicken has a 3-stage life cycle.
- B The chick closely resembles its parent.
- C The egg needs constant warmth for 21 days before it becomes a chick.

Which of the following statements made by the pupils is/ are **CORRECT**?

- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B and C

7. Some plants are grouped into Groups X and Y as shown below.

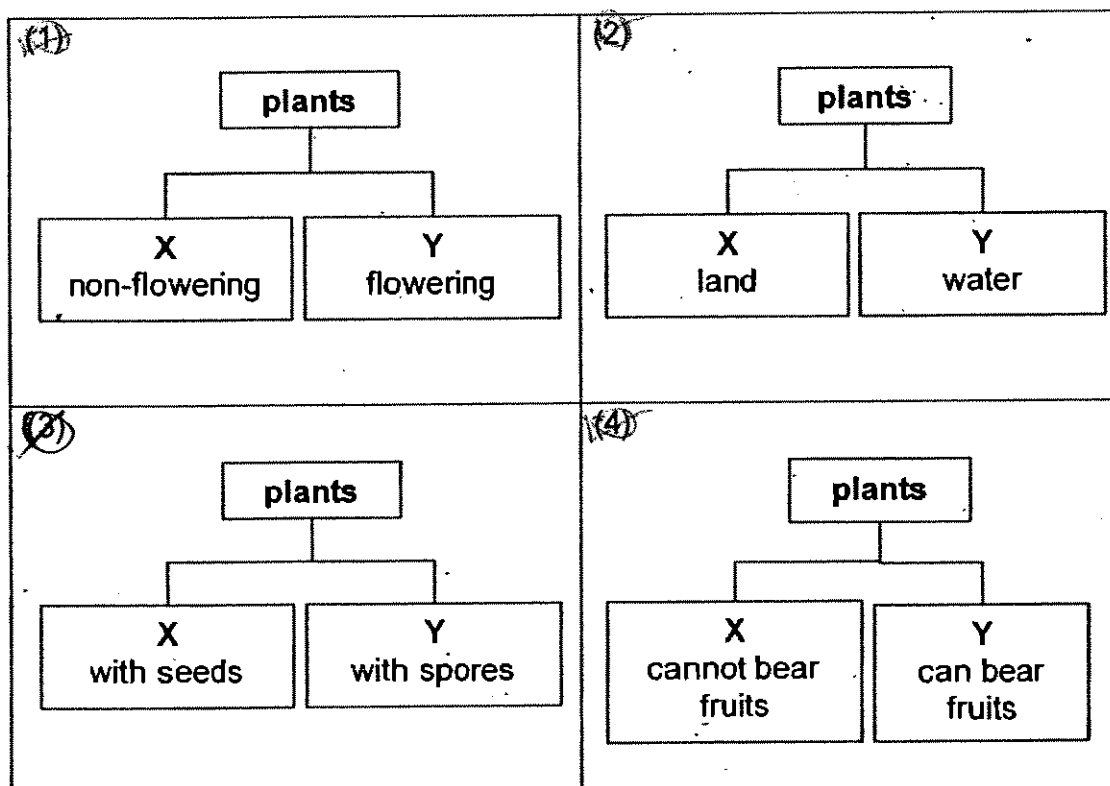


Which one of the following pairs are suitable headings for Groups X and Y?

	Group X	Group Y
(1)	has brightly-coloured flowers	has dull-coloured flowers
(2)	has flowers that grow singly	has flowers that grow in clusters
(3)	has a weak stem	has a strong stem
(4)	grows in water	grow on land

8. Jane wants to put 'bird's nest fern' and 'water lily' into two groups, X and Y, respectively.

Which one of the following arrangements **CANNOT** be used?



9. A group of pupils recorded the following observations in their Science journals to show the stages of growth that take place in the life cycle of a plant.

- A The seedling grows into a plant.
- B The root appears.
- C The seed absorbs water.
- D The shoot appears.

Rearrange the pupils' observations to show how a plant grows from a seed to a plant in the **CORRECT** order.

①

②

③

④

1st stage

→

4th stage

A	B	C	D
B	D	C	A
C	B	D	A
D	B	A	C

10. A young seedling can grow from a seed under favourable conditions.

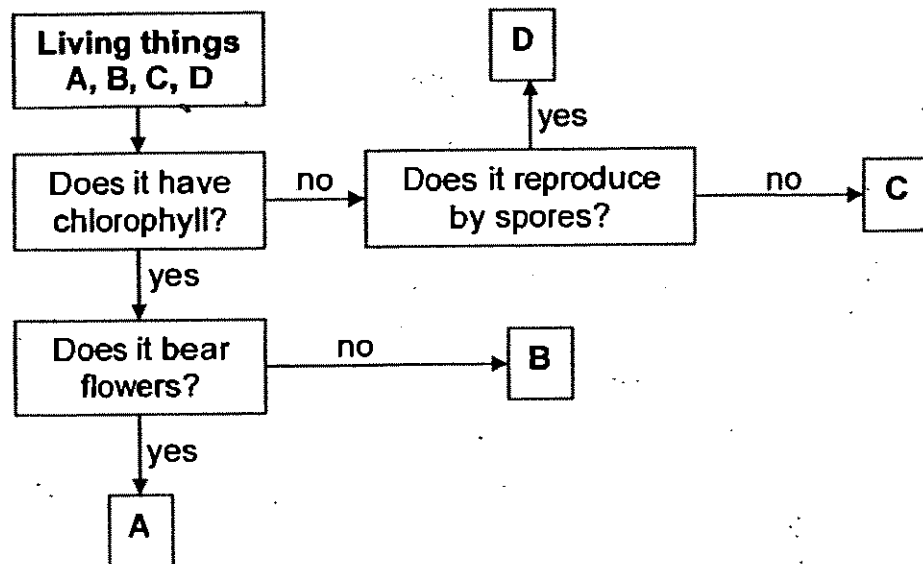


seedling

Which one of following statements about the seedling is **TRUE**?

- ① The seedling gets its food from its seed leaves.
- ② The roots of the seedling grow towards the sunlight.
- ③ The shoot of the seedling continues to grow downwards.
- ④ The seed needs only air and water to develop into a seedling.

11. Some living things are classified as shown below.



Based on the information above, which one of these living things is bread mould?

- ☒ (1) A
☒ (2) B
☒ (3) C
☒ (4) D

12. Which one of the following materials does **NOT** come from living things?

- ☒ (1) silk
☒ (2) cotton
☒ (3) leather
☒ (4) plastics

13. Rajoo noticed that the fireworks during the National Day were colourful and noisy.

Which of Rajoo's senses were used to make his observations?

- ☒ A sight
☒ B smell
☒ C taste
☒ D hearing

- ☒ (1) A and B only
☒ (2) A and D only
☒ (3) B and C only
☒ (4) C and D only

14. Lee Meng used some of her sense organs for the following situations:

sense organ \ situation	A	B	C	D
She heard a ringing bell behind her.		✓		
She realised that an insect had stung her toe.	✓			✓
The aroma of the coffee lingered in the room.			✓	

Which one of the following shows the correct sense organs that Lee Meng used in the above situations?

	A	B	C	D
(1)	ears	skin	nose	eyes
(2)	skin	nose	eyes	ears
(3)	eyes	ears	nose	skin
(4)	nose	ears	skin	eyes

15. The table below shows some organs of a man and their functions.

	ORGAN	FUNCTION
(A)	heart	It pumps blood to all parts of the body.
(B)	stomach	It produces digestive juices.
(C)	small intestine	The digestion of food starts here.
(D)	large intestine	It removes water from digested food.

Which of the following organs are **WRONGLY** matched to their functions?

- (1) A and B only
 (2) A and C only
 (3) B and C only
 (4) C and D only

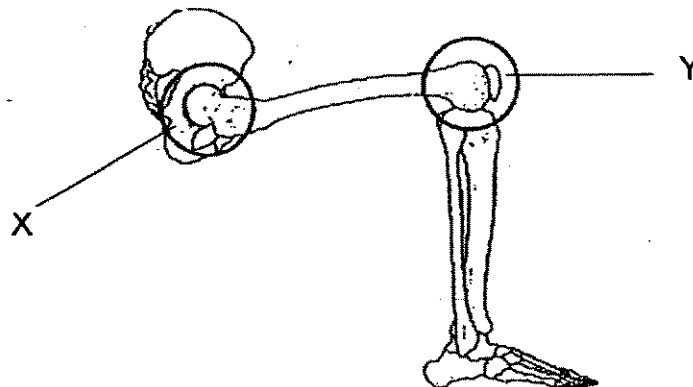
16. Melissa was given a list of parts of the digestive system. Her teacher wanted her to arrange the parts in the correct order to show how digestion takes place.

A	anus
B	gullet
C	mouth
D	stomach
E	large intestine
F	small intestine

Which one of the following shows the correct path in which food was carried from one part to another in the digestive system?

- ☒ (1) C → E → D → F → E → A
☐ (2) D → C → F → E → A → B
☐ (3) E → B → C → A → F → D
☒ (4) F → C → E → B → D → A

The diagram below shows parts of a skeleton of an organism.



Based on the diagram above, answer questions 17 and 18.

17. What are the joints at X and Y?

	X	Y
<input checked="" type="radio"/> (1)	ball and socket	ball and socket
<input type="radio"/> (2)	hinge	hinge
<input type="radio"/> (3)	hinge	ball and socket
<input checked="" type="radio"/> (4)	ball and socket	hinge

18. Which of the following statements about the joints at X and Y is/ are **INCORRECT**?

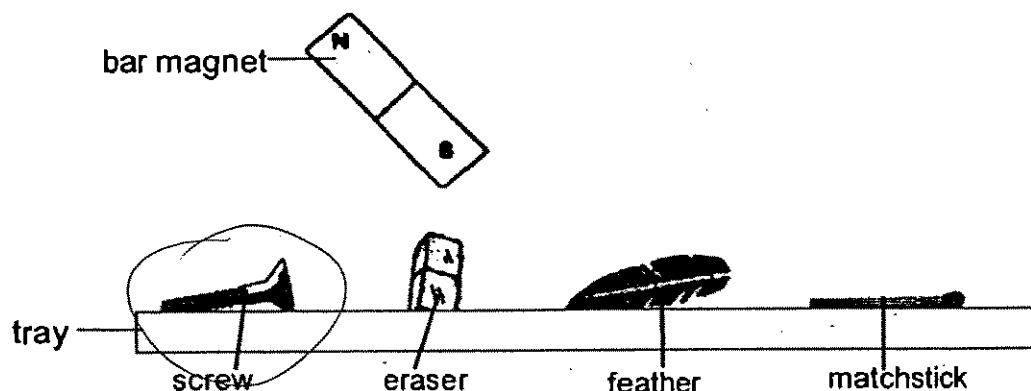
- A Joint at X allows movement in one direction.
- B Joint at Y allows back and forth movement in one direction.
- C There are at least 2 bones meeting at each point X and Y.

- (1) A only
- (2) B only
- (3) A and C only
- (4) B and C only

19. How does the muscular system help us to move?

- (1) The bones are stiff and hard.
- (2) The muscles surround the joints.
- (3) The bones contract and relax so that they move.
- (4) The muscles contract and relax to enable movement.

20. Shanti placed some objects on a tray as shown below.

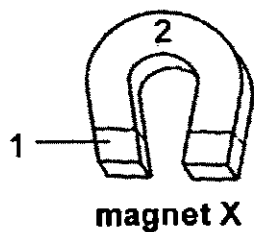


She brought a bar magnet to each object on the tray **ONE** at a time.

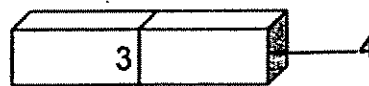
Which one of the following items was attracted to the bar magnet?

- (1) the screw
- (2) the eraser
- (3) the feather
- (4) the matchstick

21. The diagrams below show magnets of two different shapes, X and Y.



magnet X



magnet Y

Based on the diagrams above, which of the following parts of the magnets can attract more pins?

- ☒ (1) 1 and 3 only
☒ (2) 1 and 4 only
☒ (3) 2 and 3 only
☒ (4) 2 and 4 only
22. Which of the following materials can be separated from steel when an electromagnet is used?

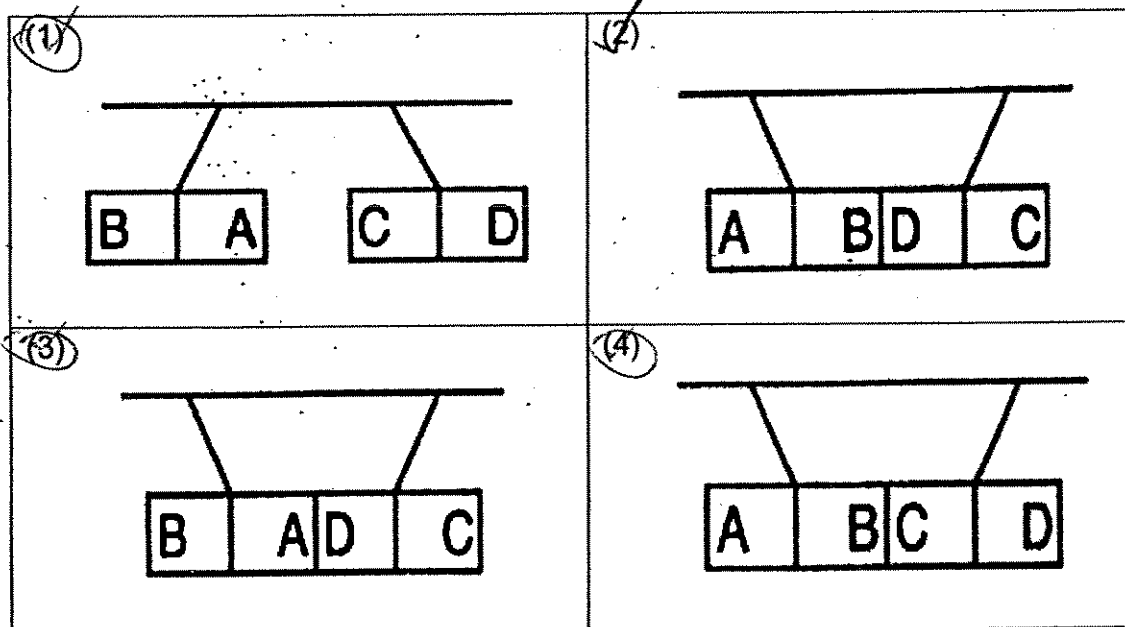
- A iron
B gold
C copper
D aluminium

- ☒ (1) A only
☒ (2) A and D only
☒ (3) B and C only
☒ (4) B, C and D only

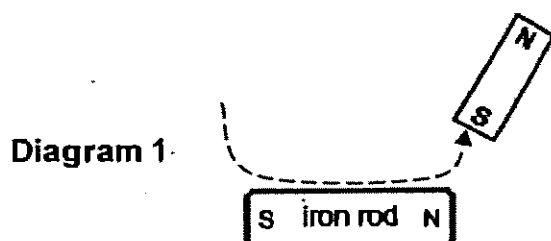
23. The diagram below shows the observations Ali made when he hung three bar magnets, AB, CD and EF, of similar strength and size next to one another.



Which one of the following diagrams would take place when Ali placed the bar magnets, AB and CD, next to each other?

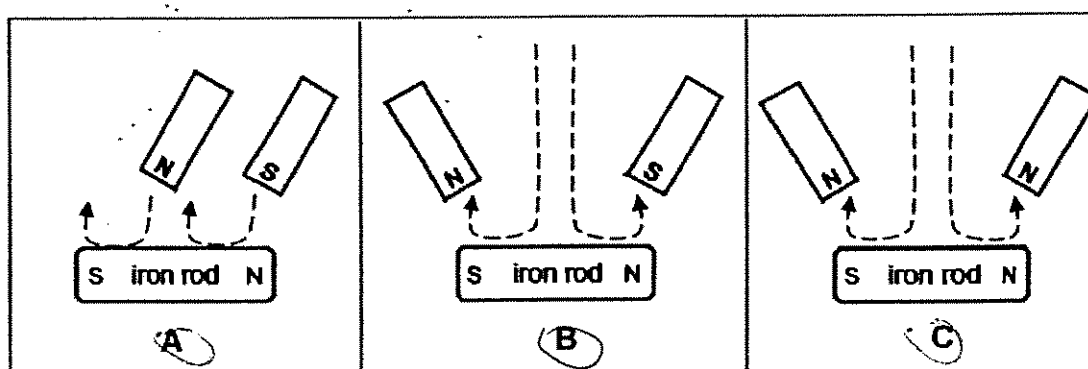


24. An iron rod with opposite poles, S-pole and N-pole, can be made a temporary magnet by the stroking method as shown in the **Diagram 1** below.



Aaron wanted to use 2 magnets to make **ANOTHER** temporary magnet with the same poles as in Diagram 1.

Which of the diagrams below show(s) the **CORRECT** method(s) of stroking?



- ☒ (1) A only
☒ (2) B only
☒ (3) A and C only
☒ (4) B and C only

Name : _____ Index No: _____ Class: P3 _____

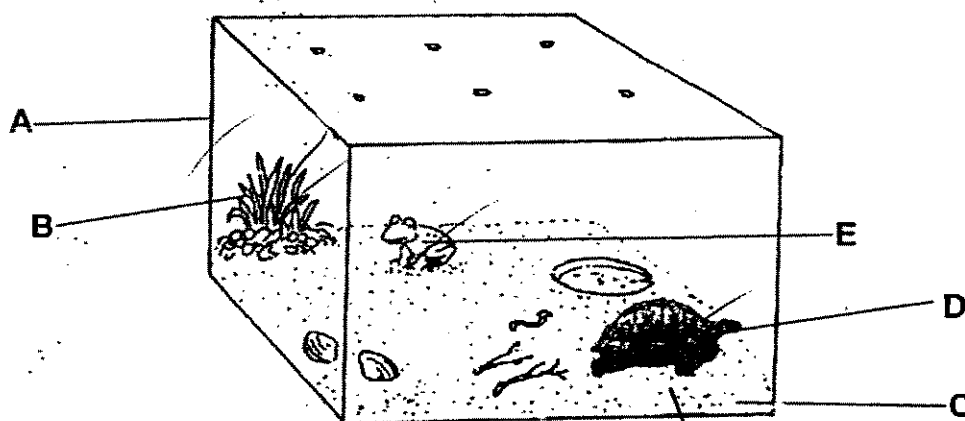
32

SECTION B (32 marks)

For questions 25 to 39, write your answers clearly in the spaces provided.

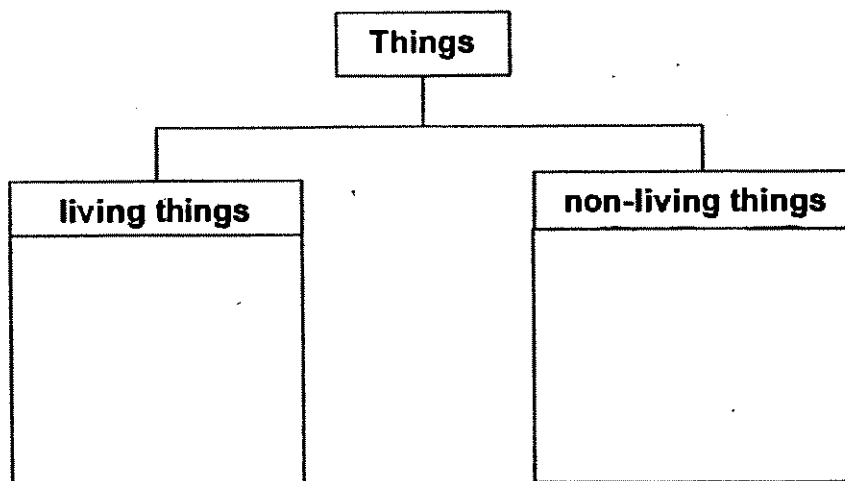
The number of marks available is shown in brackets [] at the end of each question or part question.

25. Joyce put some items in a tank as shown below.

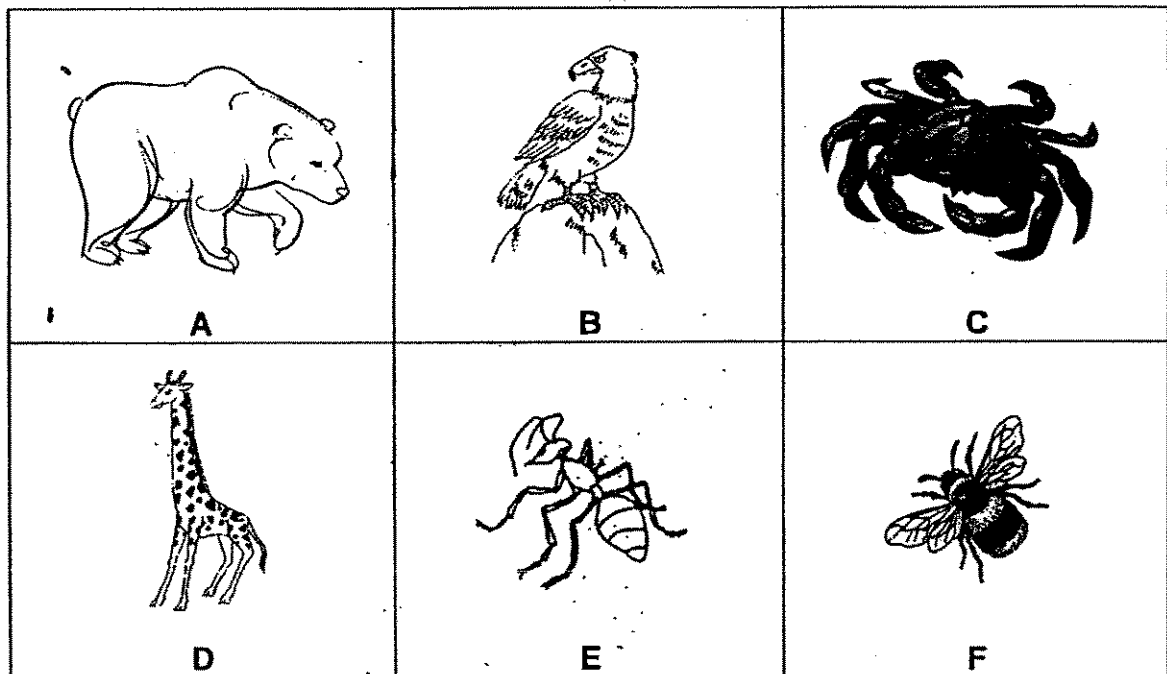


Joyce classified the items, A to E, into 2 groups of things.
Write the letters, A, B, C and D, in the correct boxes below.
The letter, E, has been done for you.

[2]



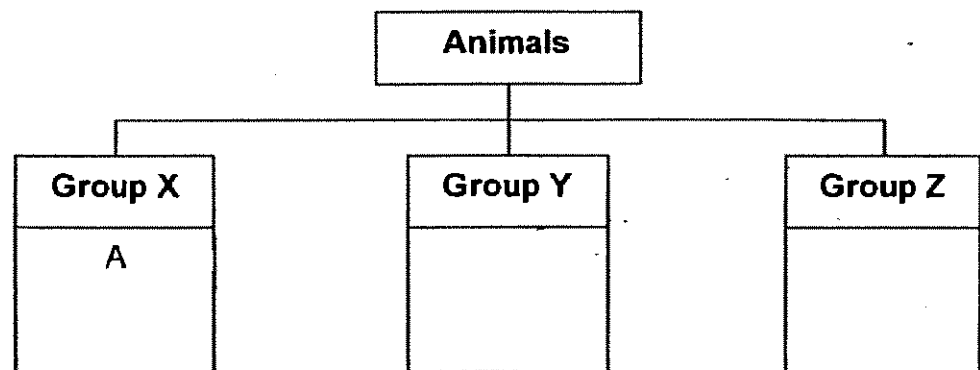
26. Jane drew some animals in her sketch book. To organise them, she decided to group them according to the way they move.



- (a) Jane used the table below to group the animals, A to F, into Groups X, Y and Z.

Write the letters, B, C, D, E and F, in the classification table below.
The letter A is done for you.

[1½]



- (b) Give a suitable heading for each of the following groups using the table below.

[1½]

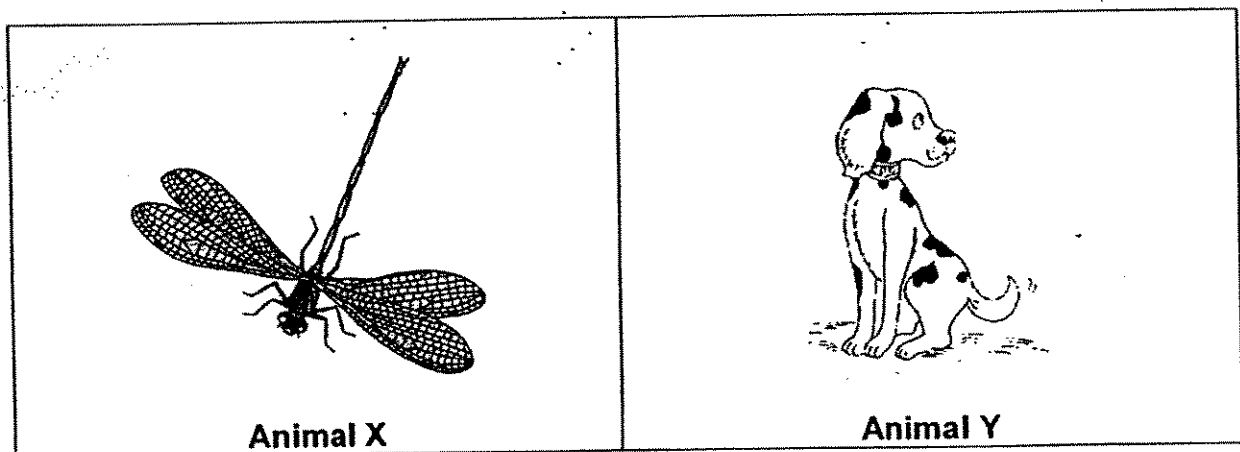
Group X	
Group Y	
Group Z	

Next, Jane decided to regroup the animals by creating **ANOTHER** table according to **ANOTHER** common characteristic among them using the table below.

Group P	Group Q
A	B
D	C
	E
	F

(c) How did Jane regroup the animals as shown in the table above? [1]

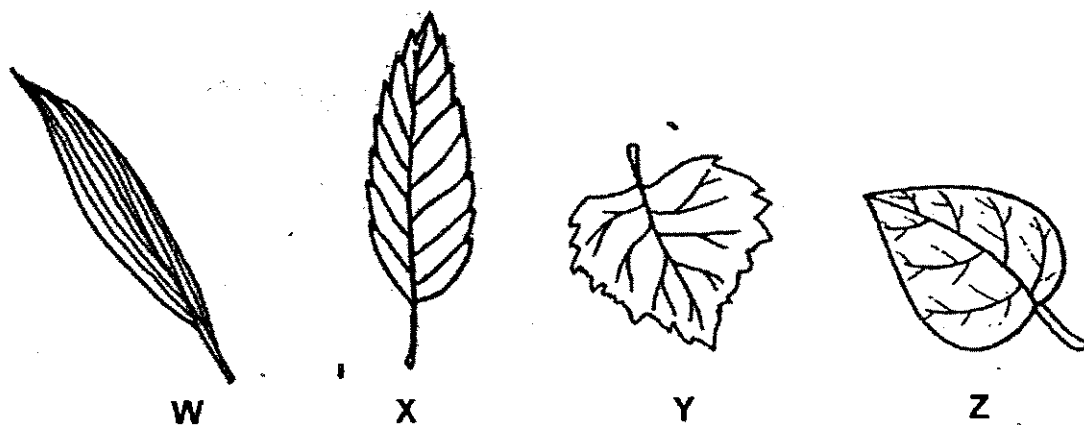
27. While having a picnic with her family, Lynn saw 2 animals, Animal X and Animal Y, among the bushes.



Based on the pictures above, state **ONE** similarity and difference between Animal X and Animal Y.
(Do **NOT** compare their sizes and shapes.) [2]

Similarity	
Difference	

28. Devi picked up four different leaves, W, X, Y and Z, as shown below.



Devi put leaf W in Group A using the table below.

Leaves	
Group A	Group B
W	

(a) Complete the table above using letters, X, Y and Z, only.

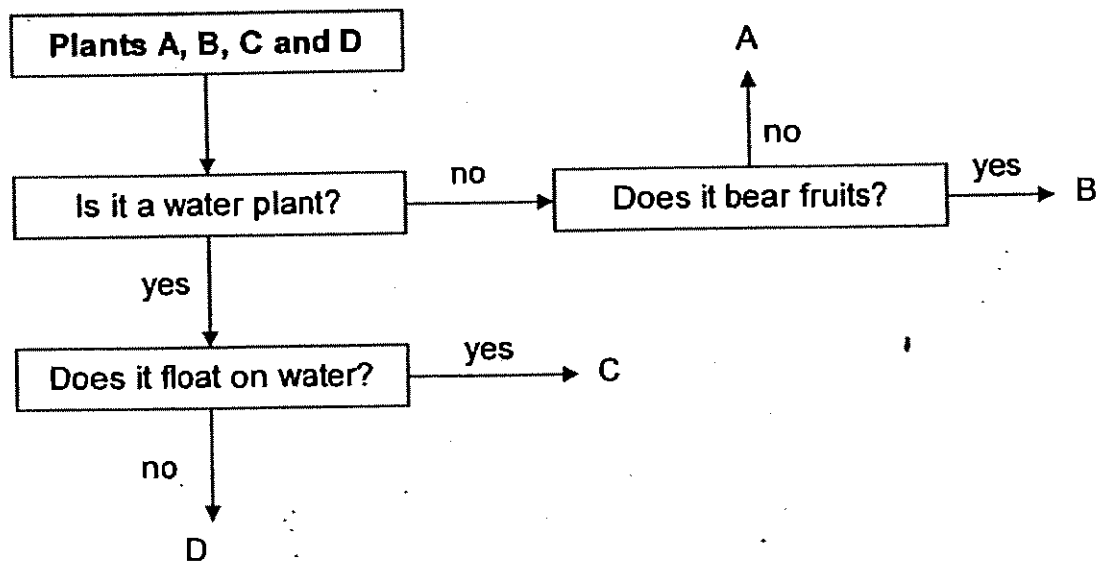
[1]

(b) ~~The physical characteristic of a flower is the distinctive quality which the flower has e.g. colour of its petals.~~

Which ^{How} physical characteristic of the leaf did Devi use to classify all the leaves in (a)?

[1]

29. The chart below shows how some plants are differentiated.



Based on the information above, use the letters A, B, C and D, to complete the table below. [2]

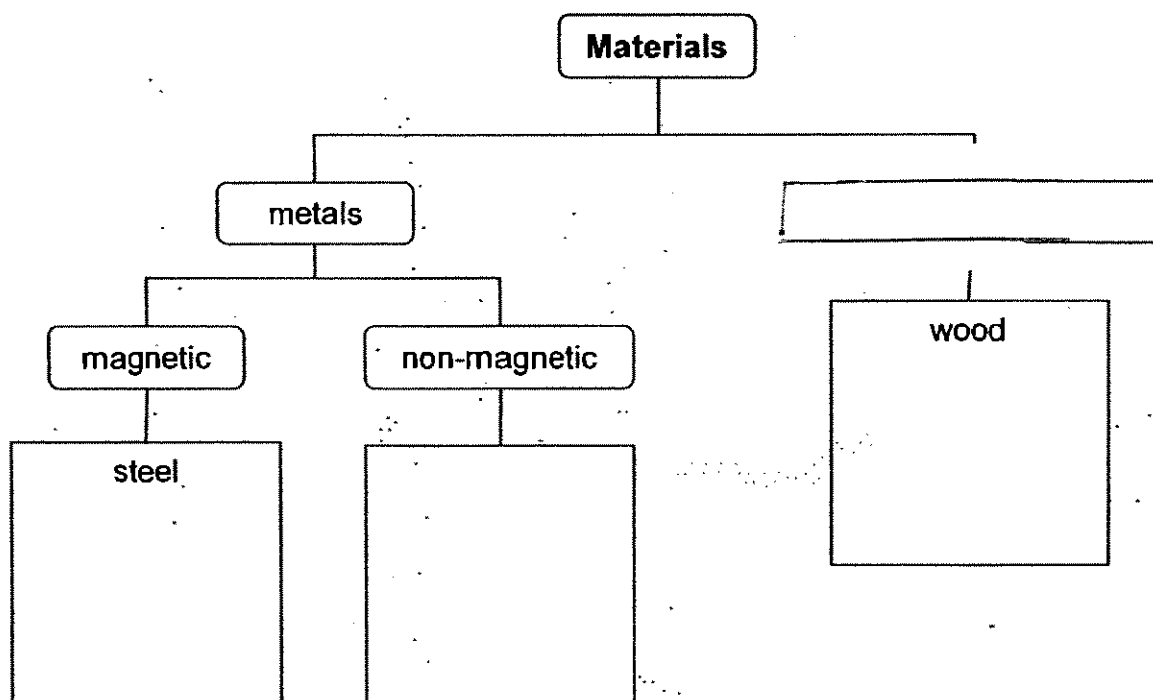
Plant	rambutan	duckweed	stag's horn fern	cattail

30. Ali was given a list of materials as shown below:

gold	aluminium	rubber	copper	wood	steel
------	-----------	--------	--------	------	-------

Ali wrote down some of the materials listed above into the table below.
However, the table is incomplete.

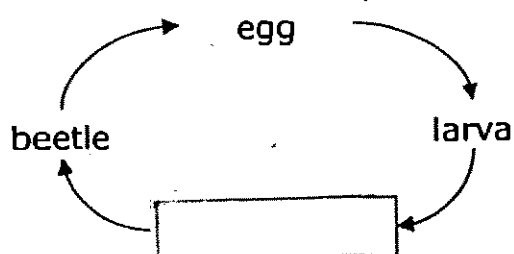
Complete the table by filling in all the missing materials given in the list above and give a suitable heading for those materials which include wood. [2]



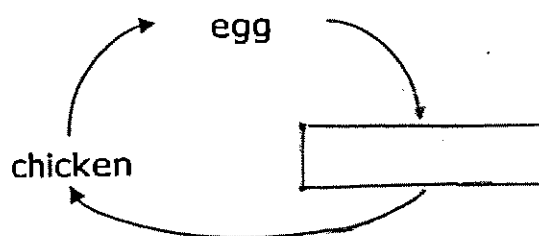
31. The life cycles of 2 different animals, A and B, are shown below.

(a) Complete the life cycles by filling in the boxes below.

[1]



Life cycle A

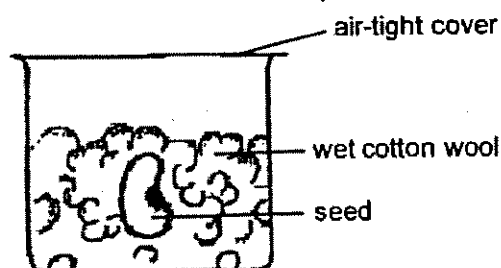


Life cycle B

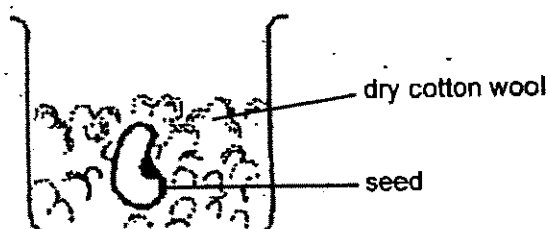
(b) Based on the information given above, name **ONE** difference between both life cycles, A and B.

[1]

32. Kumar took 2 identical seeds and placed each of them into 2 similar beakers, A and B. Beaker A contained some wet cotton wool while Beaker B had some dry cotton wool as shown below.



beaker A



beaker B

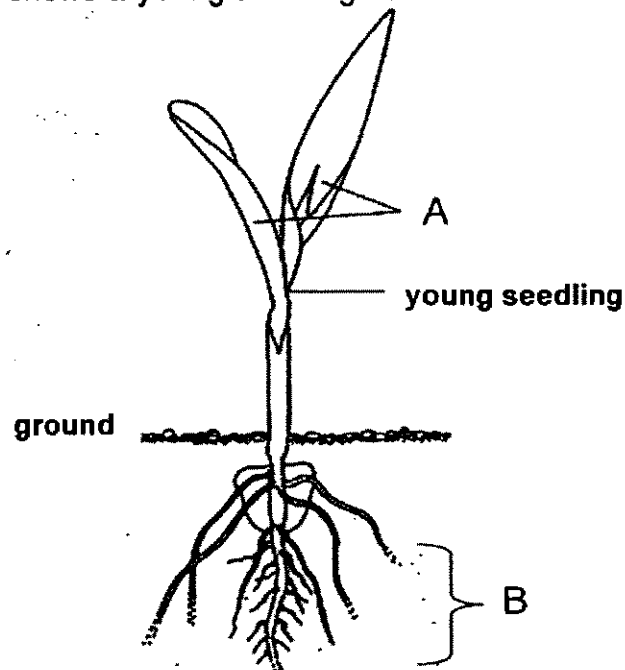
Kumar placed both beakers, A and B, near an open window for a week.

Based on the information above, suggest **ONE** way Kumar can do to enable the seeds in beakers A and B to grow into healthy plants.

[2]

Beaker A	
Beaker B	

33. The diagram below shows a young seedling with Parts A and B.



State **ONE** function of each of the following plant parts:

[2]

	Plant parts	Function
(a)	A	
(b)	B	

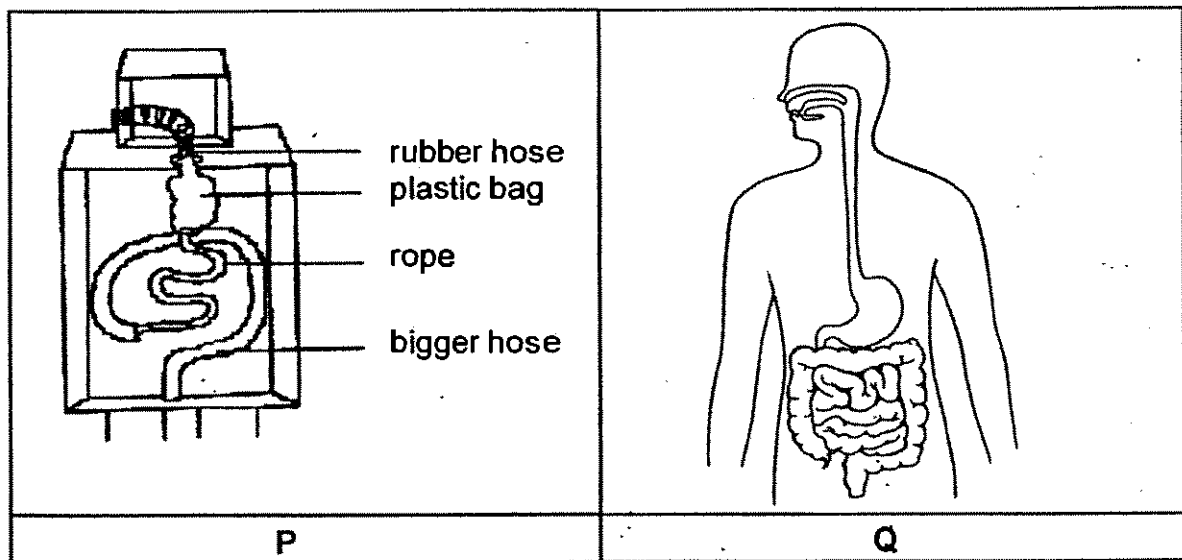
34. Ahmad recorded some observations which he had made using some of his senses.

Identify the sense(s) used by Ahmad in each of the following observations that he had made.

[2]

	Observations	Sense(s)
(a)	The cake in the oven is rising.	
(b)	The green apples are more sour than the purple grapes.	

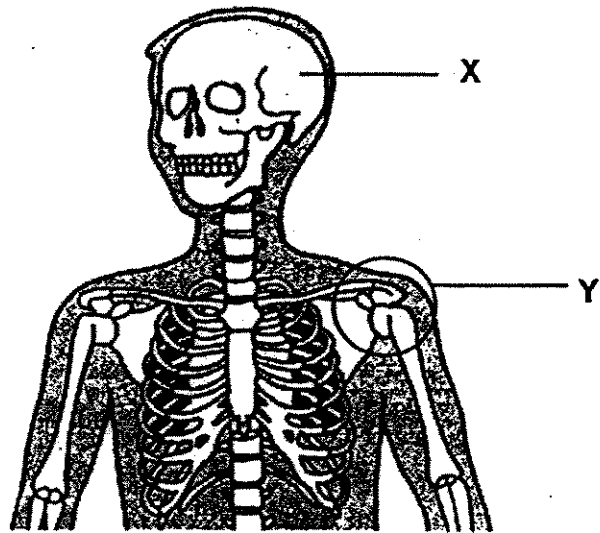
35. Ravi used some scrap materials to make a model, P, as shown below, to represent parts of the digestive system of a man, Q.



By comparing the two diagrams, P and Q, name the parts of the digestive system represented by each of the scrap materials used. [2]

Scrap material	Part of the digestive system
(a) plastic bag	
(b) bigger hose	

36. The diagram below shows parts of the skeletal system of a man.



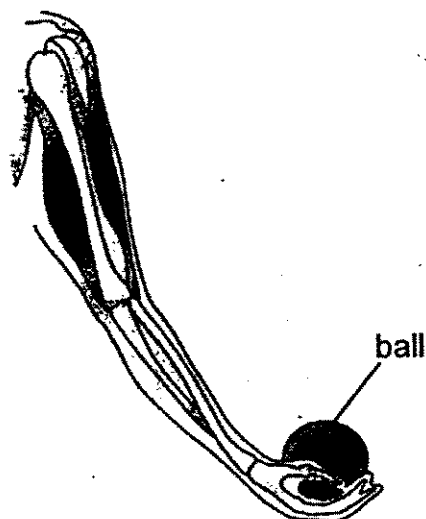
Based on the diagram above, answer the following questions:

- (a) Write 'T' for **TRUE** statements and 'F' for **FALSE** statements in the boxes provided below. [1]

(i)	Part X protects the brain.	
(ii)	Part Y is a ball and socket joint.	

- (b) Name the organs which are protected by the ribcage. [1]

37. Johnson lifted a ball with his arm as shown in the diagram below.

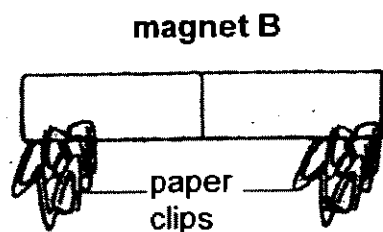
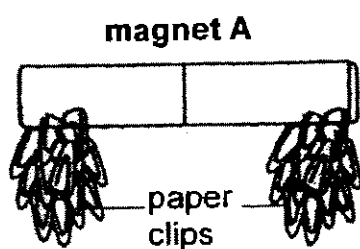


Write an appropriate word to fill in each blank below.

[2]

Johnson was able to move his arm because his _____
contract and _____.

38. Jim wanted to compare the strength of 2 magnets, A and B. He used identical magnets and made the following observations when both magnets were removed from a bowl of paper clips.

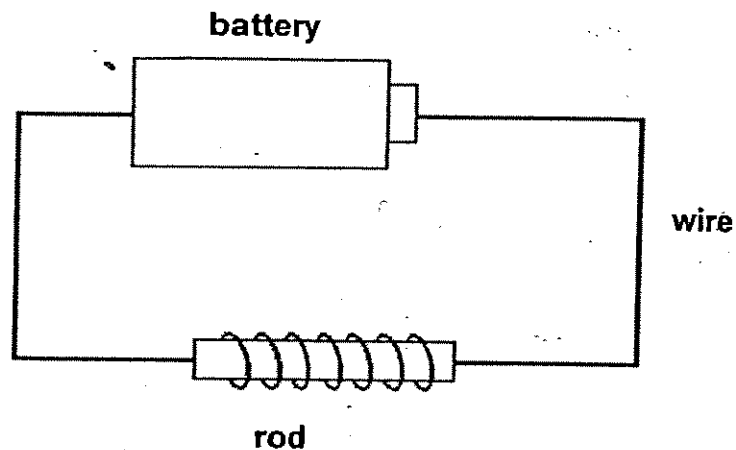


Based on the information above, which magnet, A or B, is stronger?

Explain your answer.

[2]

39. John wants to make an electromagnet using the apparatus as shown below.



Based on the diagram above, answer the following questions:

- (a) Name a material which John ^{can} use for the rod. [1]

- (b) State one way that John can increase the strength of the electromagnet. [1]

-- END OF PAPER --

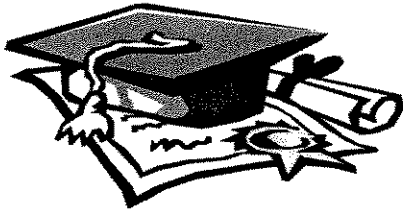
Setters:

Mrs Anna Fong

Mrs Elaine Lim

Mdm Janice Yeo

Mrs Sueann Kong



ANSWER SHEET

RAFFLES GIRLS PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 3
2. 1
3. 4
4. 1
5. 1
6. 4
7. 2
8. 3
9. 3
10. 1
11. 4
12. 4
13. 2
14. 3
15. 4
16. 1
17. 4
18. 1
19. 4
20. 1
21. 2
22. 4
23. 2
24. 2
25. Living things - D . B
Non-Living thing - A . C
- 26.a) X - D Y-E.F.C Z-B
b) X- walk Y-crawl Z-fly
C) Jane regroup them by how the reproduce.
27. Similarity: They both have legs
Difference: Animal X has two pairs of wings but
Animal Y does not have two pairs of wings.
- 28.a) A : Z B: X . Y
b) Group A's leaves has a smooth edge but Group B's leaves has jagged edge.
- 29) rambutan - B
duckweed - C
stag'shorn fern - A
cattail - D
- 30)a) non-metals
b) rubber
c) copper . aluminium . gold
- 31.a) cycle A - pupa
Cycle B - chick
b) Life cycle A has a 4-stages life cycle but Life cycle B has a 3-stages life cycle.
- 32.A-He could remove the air tight cover
B-He could water the seed.

RAFFLES GIRLS PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
-- page 2 -

- 33.a) A- Makes food for the plant.
b) B -It takes in water and minerals from the soil.
- 34.a) sight b)sight and taste
35. a)stomach b) large intestine
36. a) (i)T (ii)T
b)The ribcage protects the lungs and heart.
37. muscles contract and relax.
38. Magnet A is stronger because it can attract more Paperclips than Magnet B.
- 39.a)Iron
b)John could coil more coils of wire around the rod.
- end of paper -----

Tao Nan School
Primary 3 Science End-Of-Year Examination 2007

Name : _____ ()

Date : 25 October 2007

Class : P3

Time : 1 h 15 min

Parent's Signature: _____

Marks : _____/100

Section A (30 X 2 marks)

For each question, choose the most suitable answer and shade its correct oval (1, 2, 3, or 4) on the Optical Answer Sheet (OAS).

1. Which one of the following is **not** a living thing?

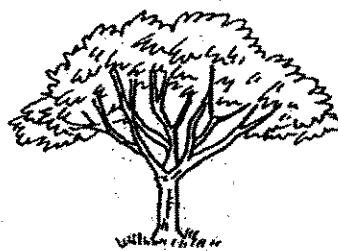
(1)



(2)



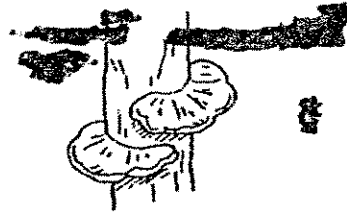
(3)



(4)



2. The following are pictures of three living organisms and their characteristics. Which of the following characteristics are **common** for all the three living organisms?



A	They grow on trees only.
B	They do not bear flowers.
C	They reproduce by spores.
D	They make their own food.

- (1) A and B only
 (2) A and D only
 (3) B and C only
 (4) C and D only

3.

penguin



cat



crocodile



Which one of the following is **correct**?

	Lay Eggs	Give Birth To Young Alive
(1)	Penguin	Cat, Crocodile
(2)	Crocodile	Penguin, Cat
(3)	Penguin, Crocodile	Cat
(4)	Cat, Crocodile	Penguin

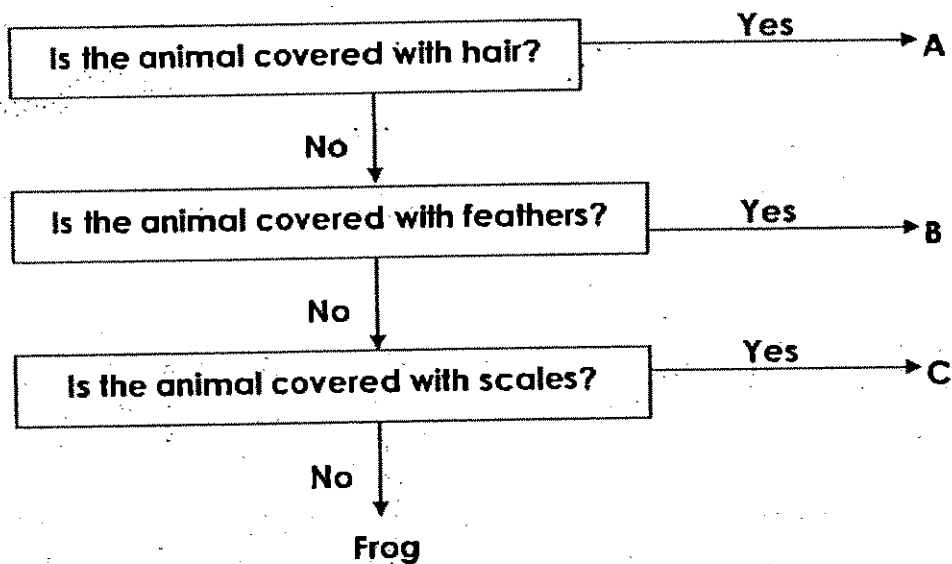
4. Study the two groups of fruits below.

Group A	Group B
chilli	lychee
lady's finger	longan
durian	rambutan

Which one of the following pairs of fruits can be placed in Group A and B?

	Group A	Group B
(1)	dragon fruit	grape
(2)	papaya	mango
(3)	cherry	orange
(4)	kiwi	pineapple

5. Study the flow chart below.



Which of the following animals can be represented by A, B and C?

	A	B	C
(1)	dog	owl	snail
(2)	monkey	eagle	whale
(3)	platypus	ostrich	goldfish
(4)	giraffe	spiny anteater	dolphin

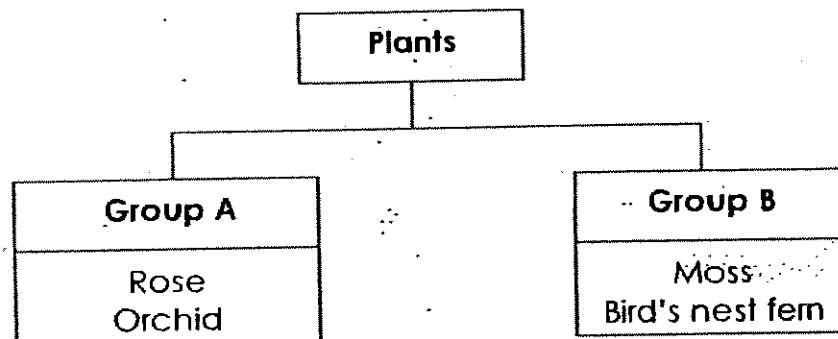
6. Study the description of the plant in the box below.

I grow on land.
I have a weak stem.
I bear flowers.

Which one of the following plants best fit the above description?

- (1) cattail
- (2) frangipani
- (3) duckweed
- (4) morning glory

7. Study the classification chart below.



What of the following plants can be represented by Group A and Group B?

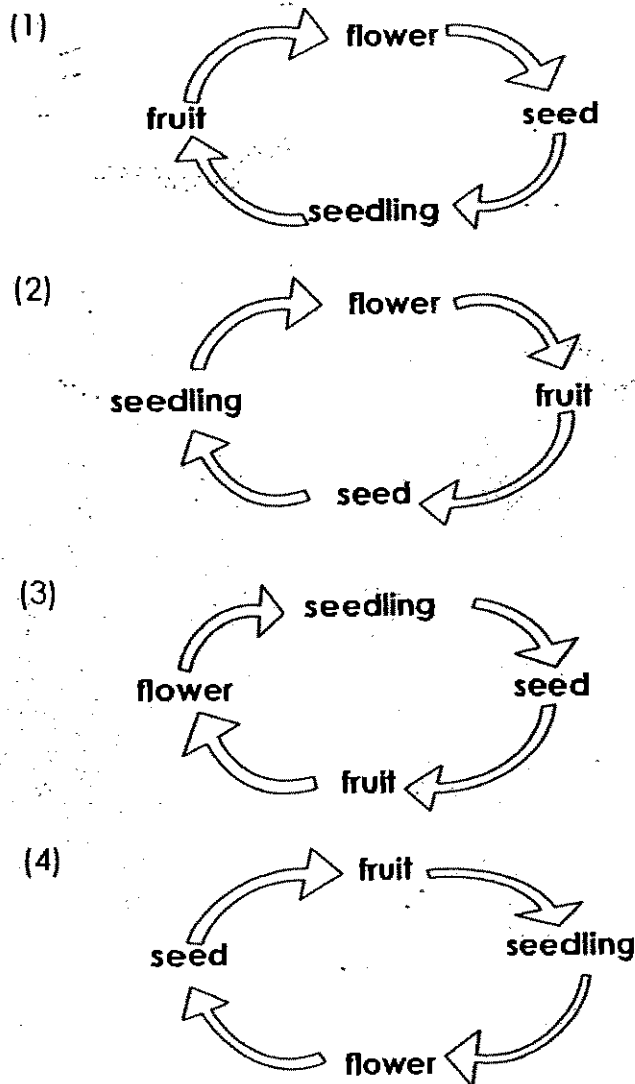
	Group A	Group B
(1)	Poisonous Plants	Non-Poisonous Plants
(2)	Flowering Plants	Non-Flowering Plants
(3)	Weak Stem Plants	Woody stem Plants
(4)	Water Plants	Land Plants

8. The process whereby a plant makes food is called _____.

- (1) photosynthesis
- (2) reproduction
- (3) germination
- (4) respiration

9. Tom accidentally toppled a pot of balsam plant and its stem broke. The plant will _____ after **three** days.
- (1) continue to grow
 - (2) grow more flowers
 - (3) develop new stem
 - (4) have drooping leaves
10. If a hen lays an egg and sits on it from 5 August, when will the egg hatch?
- (1) 12 August
 - (2) 19 August
 - (3) 26 August
 - (4) 31 August

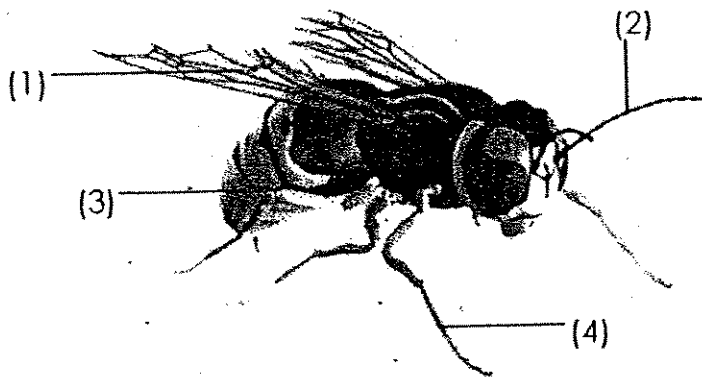
11. Which one of the following shows the life cycle of a flowering plant?



12. Our _____ protects our lungs and heart in our body.

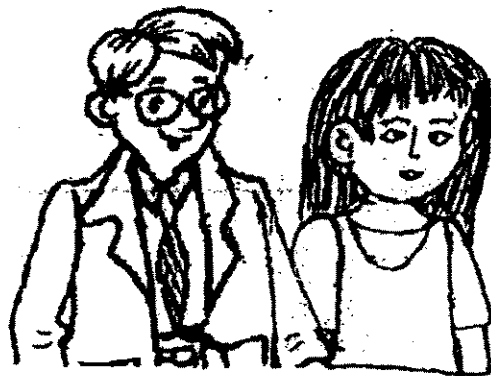
- (1) skull
- (2) spine
- (3) pelvis
- (4) ribcage

13. The diagram below shows a wasp.

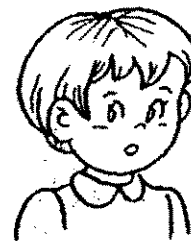


Which part of the wasp is **not** found in all insects?

14. Study the picture of Jane and her parents below.



Jane's parents

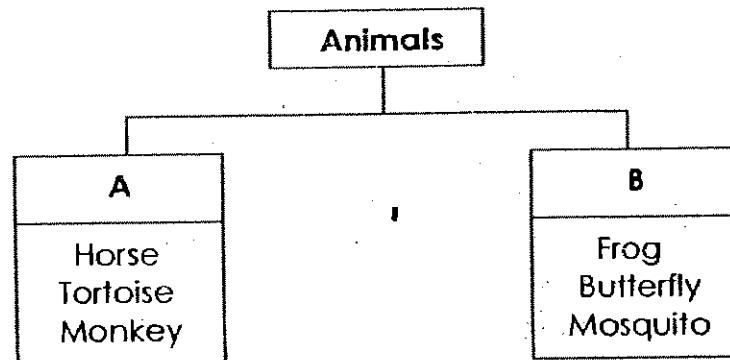


Jane

Jane inherited her _____

- (1) father's height
- (2) mother's hairstyle
- (3) mother's ear lobe
- (4) father's short-sightedness

15. Which one of the following headings are represented by A and B in the following classification?



	A	B
(1)	Cannot fly	Can fly
(2)	Have four legs	Have six legs.
(3)	3-stage life cycle	4-stage life cycle
(4)	Look like its young	Do not look like its young

16. How are a caterpillar and a cockroach nymph similar?

- (1) Both can fly.
- (2) Both feed on leaves.
- (3) Both moult as they grow.
- (4) Both have two pairs of wings.

17. Below are four comments made by Ali, Bob, Chris and Devi while they were walking in a garden.

Ali : Hmm.. what a sweet smell?

Bob : Look at the beautiful lilies in the pond!

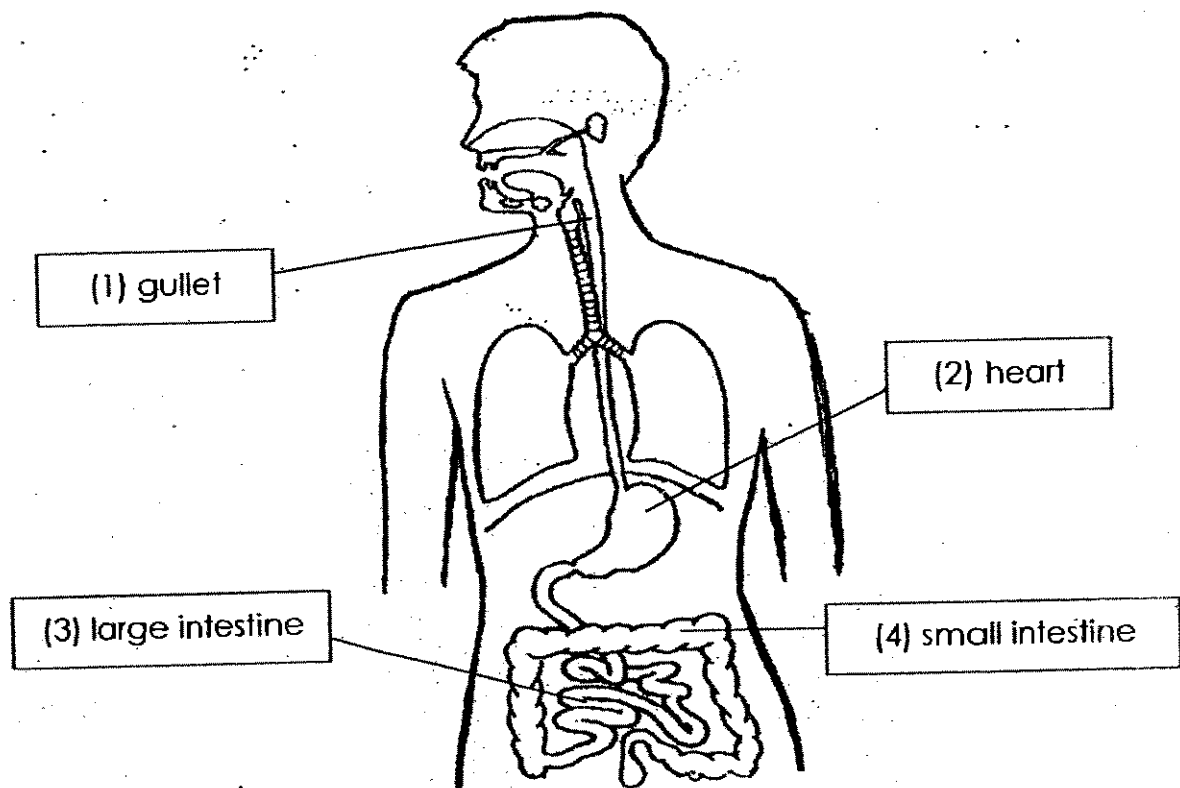
Chris : Ouch! A red ant just bit me!

Devi : Shh...What is that croaking sound?

Which of the children used **more than one** sense organ?

- (1) Ali
- (2) Bob
- (3) Chris
- (4) Devi

18. Look at the labelled organs below. Which one of the organs is labelled **correctly**?



19. Jane put some sugar into her coffee and picked up a teaspoon to stir it well. Which part/parts of her body helped her to do the work mentioned above?

A	Muscles
B	Bones
C	Joints
D	Nerves

- (1) A and B only
(2) C and D only
(3) A, B and C only
(4) A, B, C and D
20. In our digestive system, the _____ in the mouth softens the food we eat so that it can be swallowed more easily.

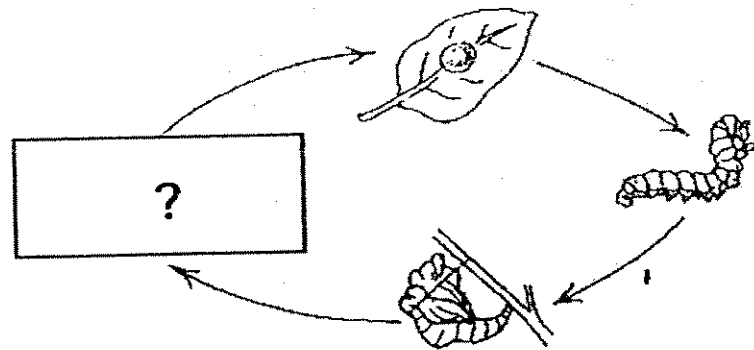
- (1) gum
(2) saliva
(3) teeth
(4) tongue

21. Which of the following are **responses** made by living things?

A	A mother bird fed her nestlings with worms.
B	Lisa sneezed when she entered a dusty room.
C	Mary screamed loudly when she saw a snake.
D	The mimosa leaves closed when I touched them.

- (1) A and B only
(2) C and D only
(3) B, C and D only
(4) A, B, C and D

22. The following is a life cycle of a certain organism.



Which one of the following organisms represents the missing stage in the life cycle above?

(1)



(2)



(3)



(4)



23. The table shows how fruits can be grouped.

	One seed	Many seeds
Edible	A	C
Non-edible	B	D

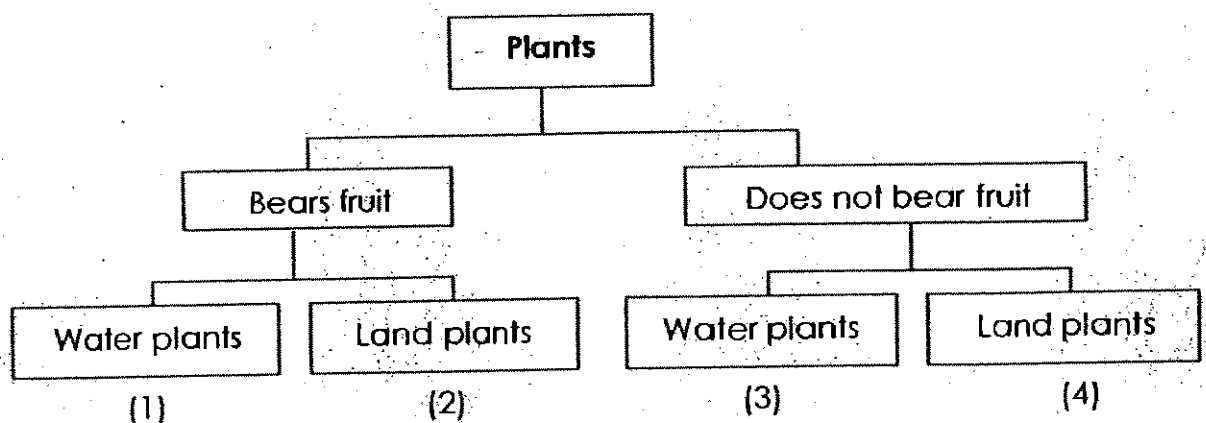
In which box, A, B, C or D, would you place watermelon?

- (1) A
- (2) B
- (3) C
- (4) D

24. Which one of the following materials and its properties are paired correctly?

	Materials	Properties
(1)	Rubber	Waterproof
(2)	Metal	Breaks easily
(3)	Wood	Transparent
(4)	Glass	Flexible

25. The following chart gives information on four plants.



From the information above, which plant bears fruit and grows on land?

26. Which of the following products are made from materials that are **once alive**?



wine glass



nail cutter

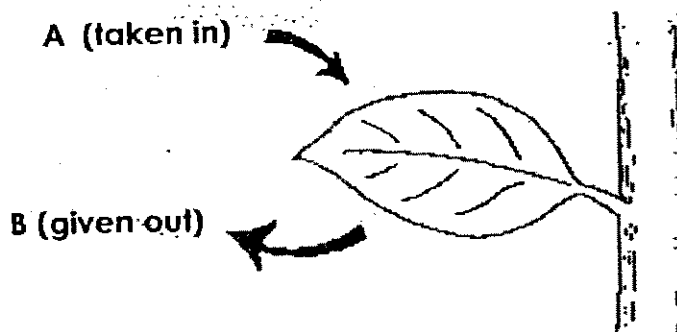


envelope



woollen jacket

- (1) woollen jacket only
 - (2) wine glass and nail cutter only
 - (3) envelope and woollen jacket only
 - (4) wine glass, nail cutter and envelope only
27. Study the diagram below. Which of the following is the gaseous exchange in the presence of light?

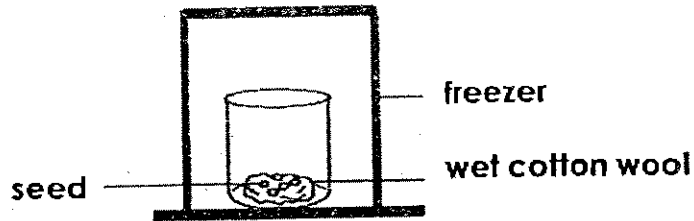


- (1)
- (2)
- (3)
- (4)

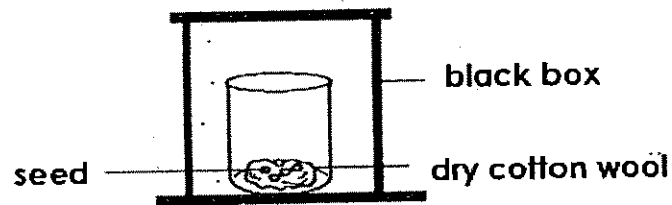
A (taken in)	B (given out)
Oxygen	Water vapour
Carbon dioxide	Oxygen
Oxygen	Carbon dioxide
Water vapour	Carbon dioxide

28. In which one of the following set-ups, the seeds will germinate?

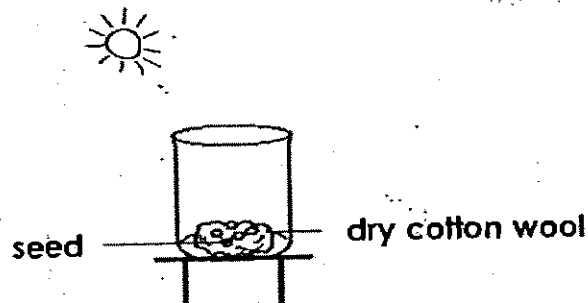
(1)



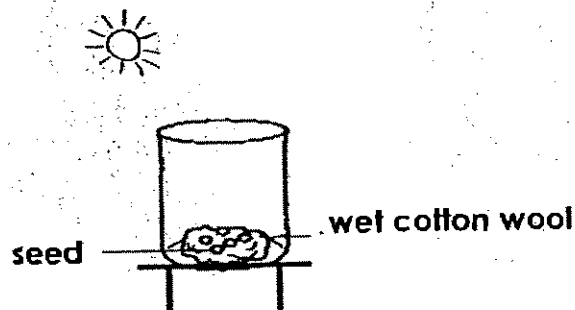
(2)



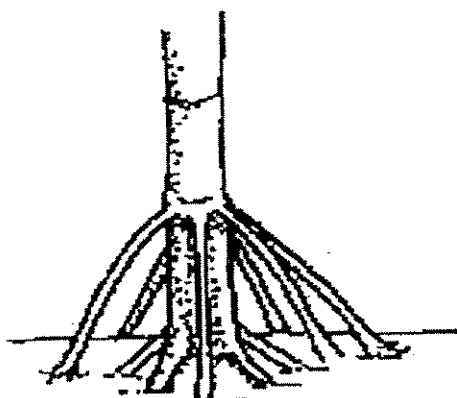
(3)



(4)



29.) Identify the type of roots in the picture below.



- (1) prop roots
- (2) storage roots
- (3) clasp roots
- (4) breathing roots

30. David grew some yeast and bacteria cells. He counted the number of yeast and bacterial cells under a microscope and recorded the results in the table below.

Time (minutes)	Number of Yeast Cells	Number of Bacterial Cells
0	5	5
20	5	10
40	5	20
60	10	40
80	10	80
100	20	150

What is the **shortest time** taken to see a change in the number of yeast and bacterial cells?

	Time Taken to See a Change in the Number of Yeast Cells	Time Taken to See a Change in the Number of Bacterial Cells
(1)	40 minutes	0 minutes
(2)	60 minutes	20 minutes
(3)	80 minutes	40 minutes
(4)	100 minutes	60 minutes

Tao Nan School
Primary 3 Science End-Of-Year Examination 2007

Name : _____ ()

Marks : _____/40

Class : P3 ()

Parent's Signature: _____

Section B (40 marks)**Write your answers in the spaces provided.**

31. Complete the following table.

(3 marks)

	Animals	Movements	Outer Body Coverings
i)	Whale		
ii)	Sparrow		
iii)	House lizard		

32. Fill in each blank with the most suitable word.

(2 marks)

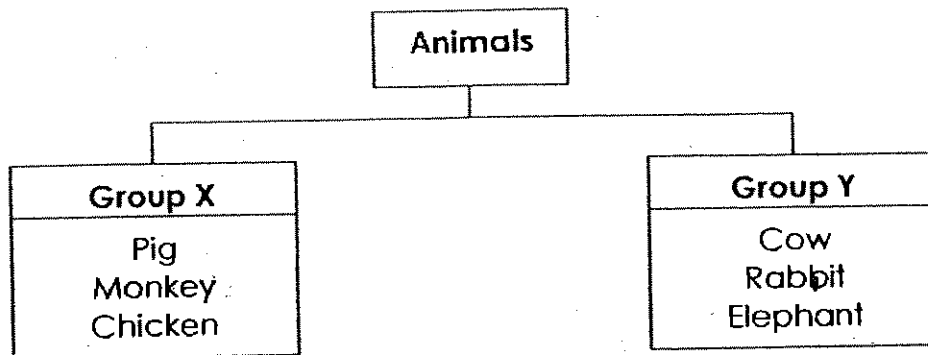
A cockroach is an insect. It has a _____ stage life cycle.

The female cockroach lays its _____ in a dark place. The

young of a cockroach is called a _____. It looks quite

similar to the adult. It _____ a few times before it becomes
an adult.

33. Study the classification chart below.



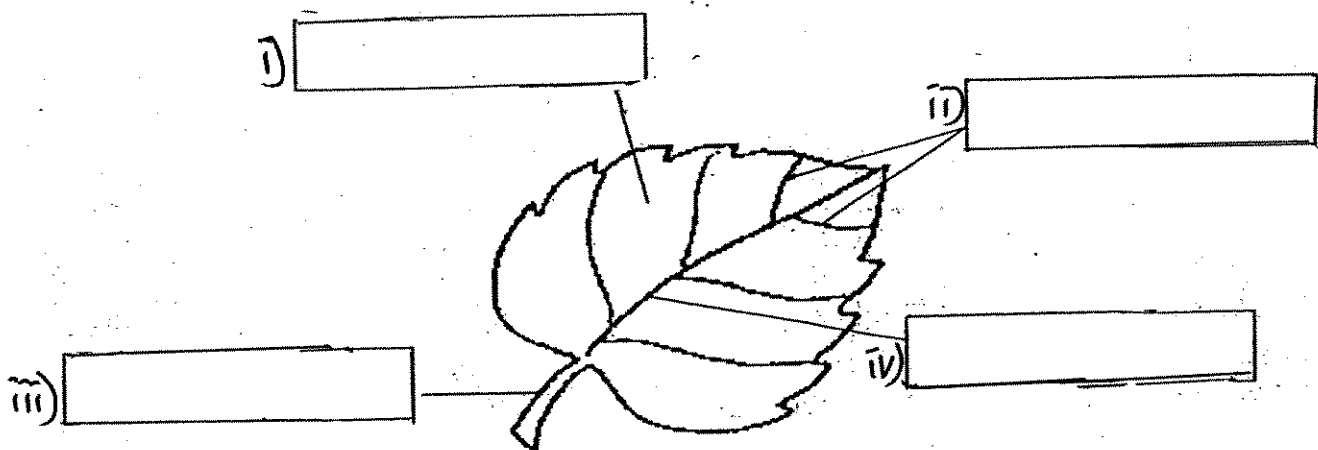
(a) Identify the headings represented by **Group X** and **Group Y**. (2 marks)

Group X : _____

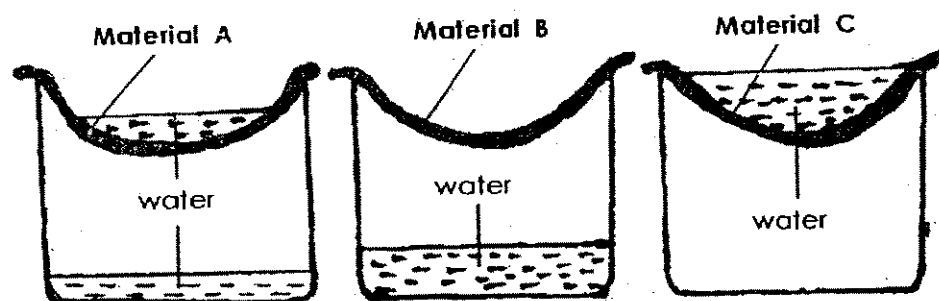
Group Y : _____

(b) Which group, Group X or Group Y does a giraffe belong to? (1 mark)

34. Identify the parts of the leaf below. (2 marks)



35. Leon tested three different materials to find out which is the best for making an umbrella. Below are the results of his test.



- (a) Based on the results, which material is the best for making an umbrella? (1 mark)

- (b) Give a reason for the selection of the material in (a). (1 mark)

- (c) Arrange Materials A, Material B and Material C from the most waterproof to the least waterproof. (1 mark)

most

least

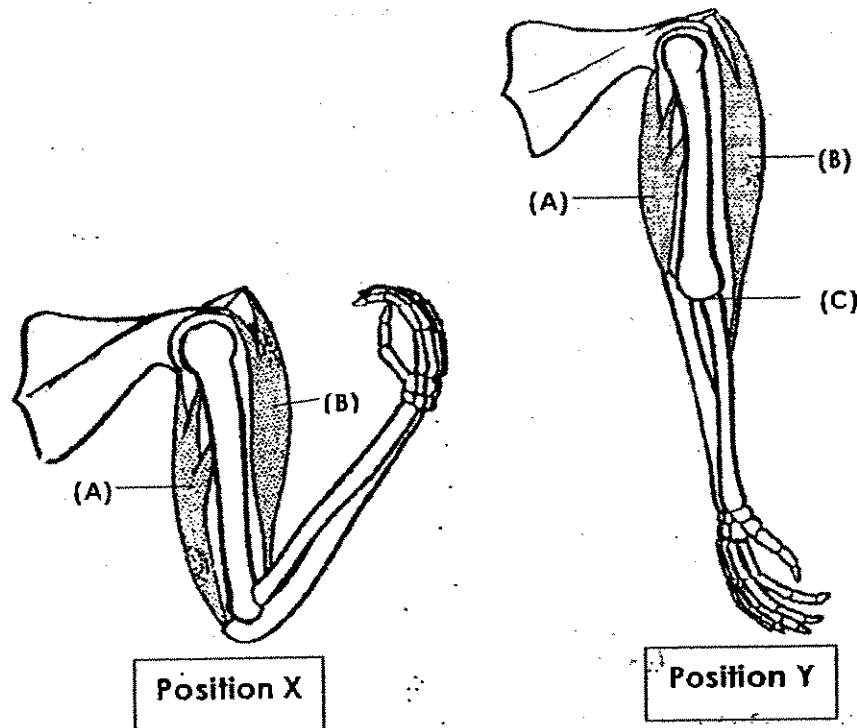
36. Study the table below.

Property \ Material	Transparent	Waterproof	Breakable	Floats On Water
A	✓	✓		
B	✓	✓	✓	
C		✓		✓

- (a) Based on the above table, which material is most suitable for making a boat? (1 mark)

- (b) Name an **object** that is made of Material B. (1 mark)

37. The diagram below shows part of the skeletal and muscular systems of our arms in two different positions.



Read the following statements about the arms and write "T" if the statement is **true** and "F" if it is **false** in the brackets provided. (2 marks)

(a) At position X, muscle (A) is relaxed.

()

(b) At position Y, both muscles, (A) and (B) are relaxed.

()

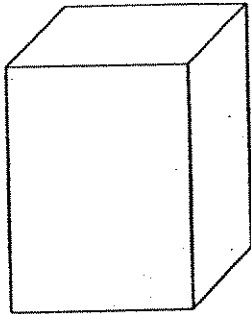
(c) The joint at (C) allows movements of the bones in all directions.

()

(d) To move the arm from Position X to Position Y, the skeletal and muscular systems must work together.

()

38. A pupil was told to conduct an investigation to find out if plants grow towards sunlight using the items shown below.



A styrofoam box with a cover

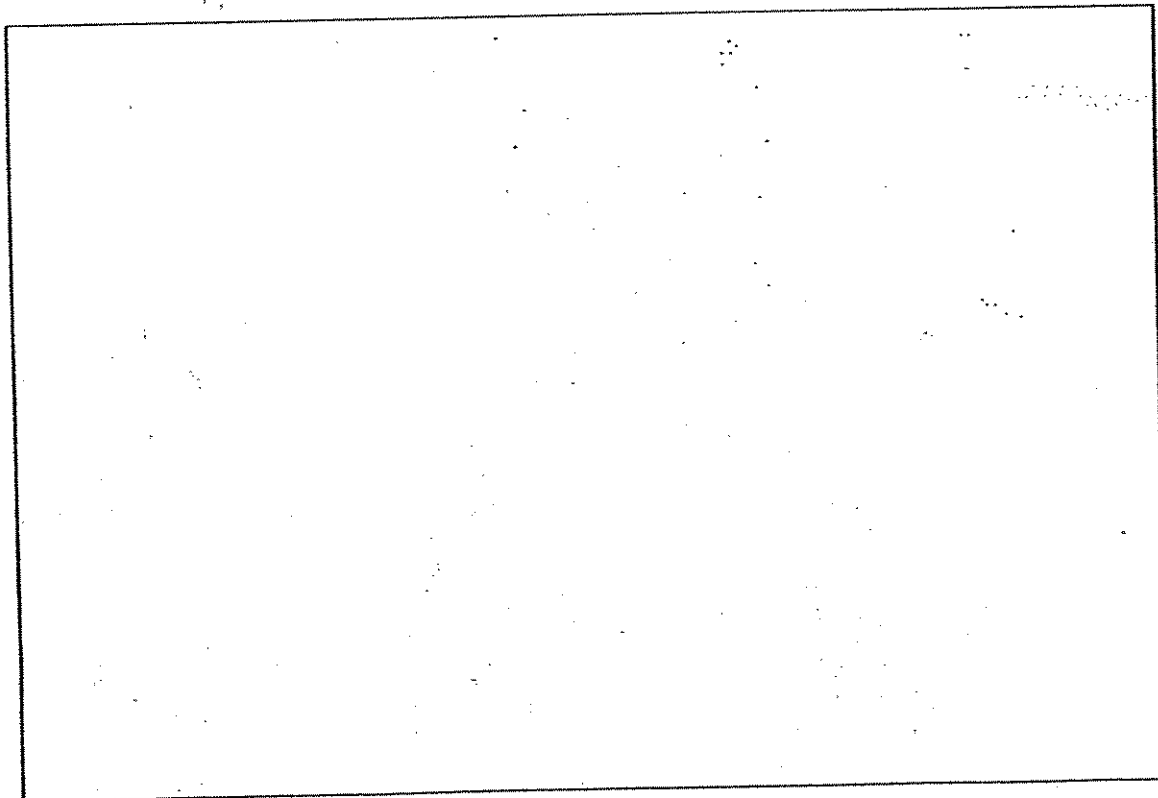


A pair of scissors



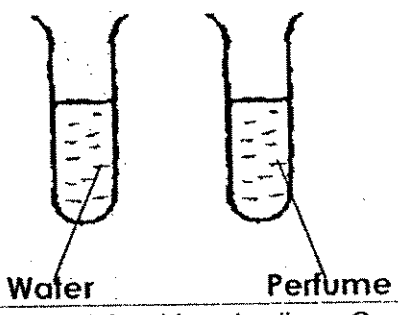
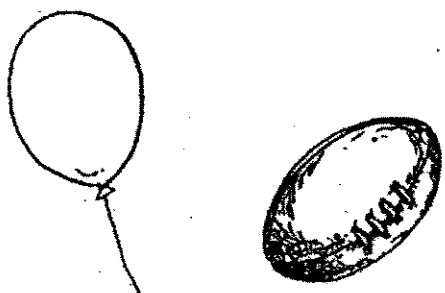
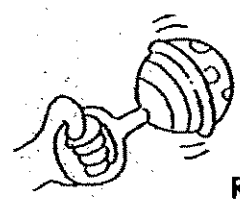
A potted plant

Draw a diagram in the box below to show the set-up at the end of the investigation. (2 marks)

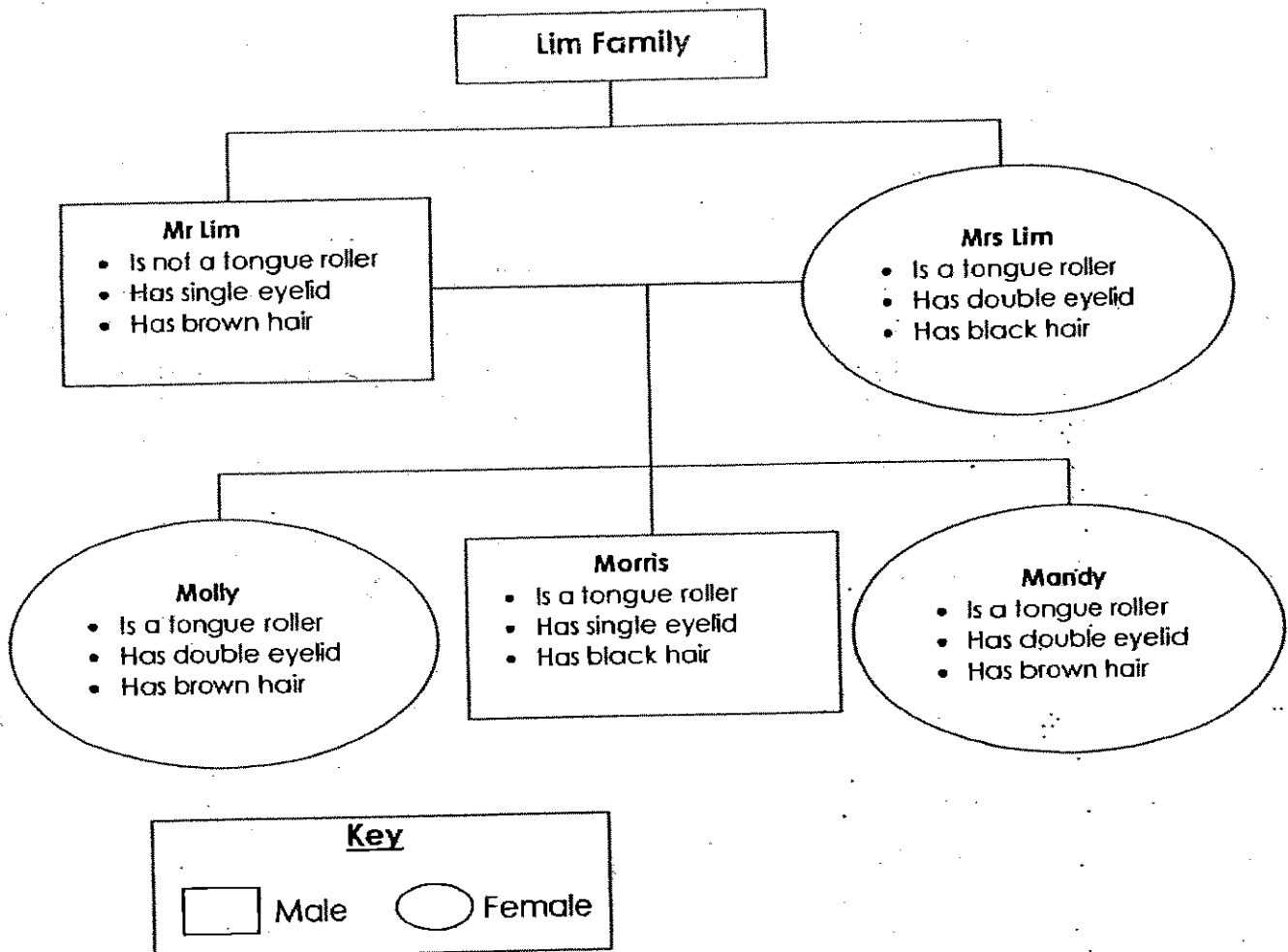


39. Max was **blindfolded** and was given the following **tasks**.

Identify the sense organs that will help him to perform the tasks in the boxes provided. (3 marks)

	Tasks	Sense Organ/s that will help him
i)	<p>Which test tube contains perfume?</p>  <p>Water Perfume</p>	
ii)	<p>Which object is a balloon?</p>  <p>Balloon Rugby ball</p>	
iii)	<p>Describe this object.</p>  <p>Rattle</p>	

40. Study the family tree below.



(a) How many sons and how many daughters do Mr and Mrs Lim have? (1 mark)

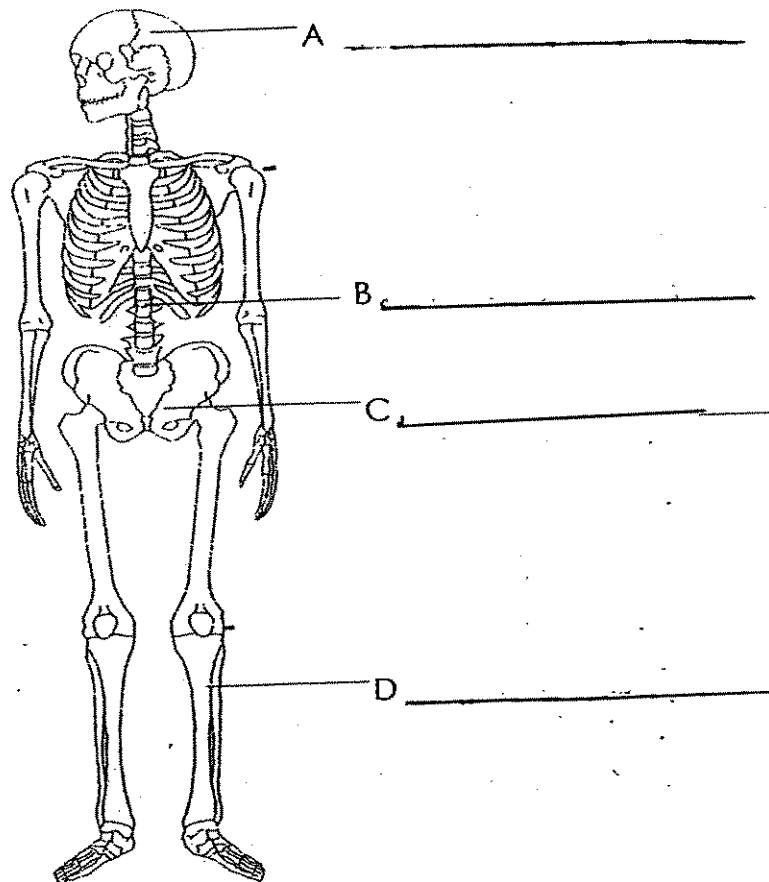
(b) Which child has inherited Mrs Lim's hair colour? (1 mark)

(c) If Mr and Mrs Lim have a pair of identical twins, which 2 children would they most probably be? (1 mark)

41. The diagram below shows the human skeletal system.

(a) Identify the parts, A, B, C and D.

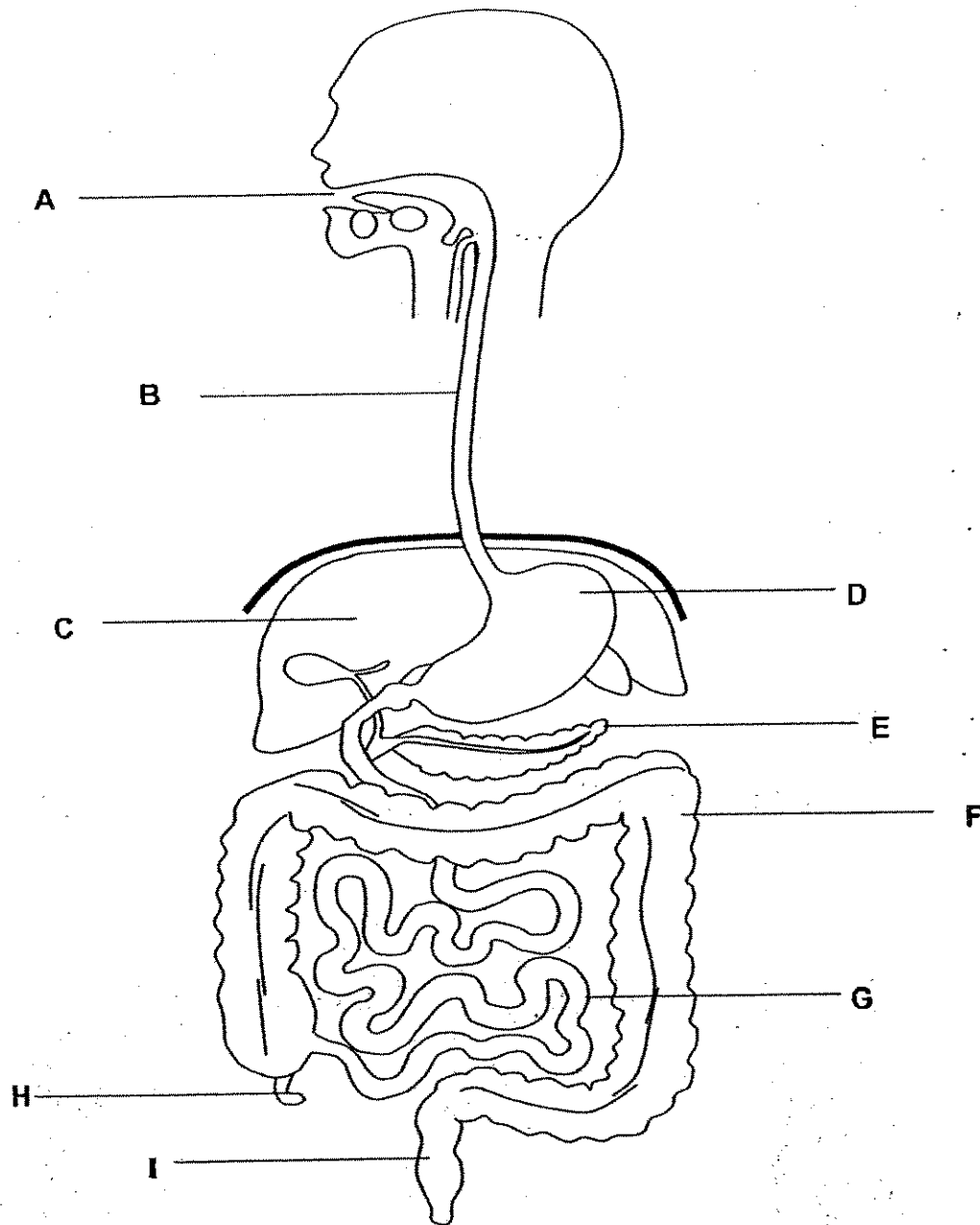
(2 marks)



(b) Label and name **one hinge joint** and **one ball and socket joint** in our body in the diagram above.

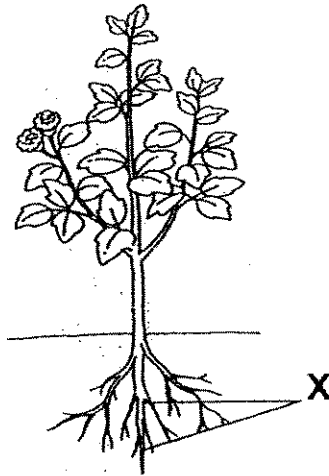
(2 marks)

42. The diagram below shows part of the human body.



List in order, the organs that food or drink passes on its way through the digestive system. Use the appropriate letters (A to I) from the diagram above.
(2 marks)

43. Look at the picture of a plant below.



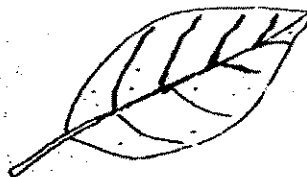
- (a) Name the part that is labelled X. (1 mark)

- (b) State **one** function of X? (1 mark)

44. Study the leaves below.



Leaf A



Leaf B

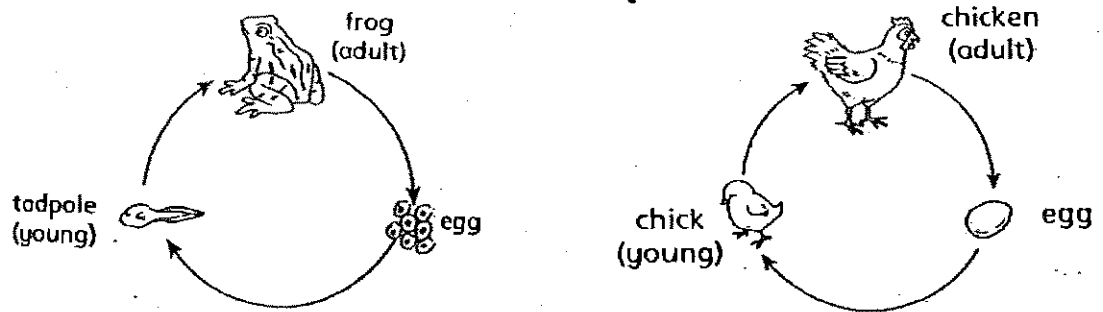


Leaf C

- (a) Identify the leaf that does not belong to the group. (1 mark)

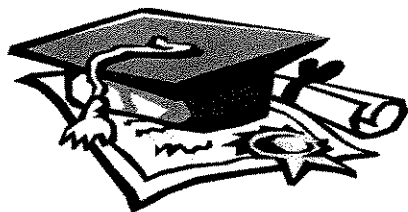
- (b) Explain your answer in (a). (1 mark)

45. Study the life cycles of a chicken and a frog below.




(a) State **one similarity** between the two life cycles. (1 mark)

(b) State **one difference** between the two life cycles at the egg stage. (1 mark)



ANSWER SHEET

TAO NAN PRIMARY SCHOOL - PRIMARY 4 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 1
 2. 3
 3. 3
 4. 2
 5. 3
 6. 4
 7. 2
 8. 1
 9. 4
 10. 3
 11. 2
 12. 4
 13. 1
 14. 3
 15. 4
 16. 3
 17. 3
 18. 1
 19. 4
 20. 2
 21. 3
 22. 2
 23. 3
 24. 1
 25. 2
 26. 3
 27. 2
 28. 4
 29. 1
 30. 2
- 31) i) swim, hair
ii) fly, feather
iii) crawl, dry, skin, scales
- 32) three, eggs, nymph, moults
- 33) a) X: Eat plants and animals
Y: Eat plants only
b) A giraffe belongs to Group Y.
- 34) i) Leaf blade ii) Leaf veins
iii) Leaf stalk iv) Main veins
- 35) a) Material C.
b) It is waterproof.
c) Material C, Material A, Material B
- 36) a) C.
b) Glass
- 37) a) T b) F c) F d) T
- 38)
- 

39) i) Nose ii) Skin iii) Ears

40) a) They have two daughters and one son.
b) Morris has inherited Mrs Lim's hair colour.
c) Molly and Mandy.

41) a) A) Skull B) Back bone C) Hip bone
D) Shin bone
b)

hinge joint

42) A, B, D, G, F, I

43) a) Roots
b) It holds the plant firmly on the ground.

44) a) Leaf B.
b) Leaf B has an entire edge while leaf A and C have too the edges.

45) a) They have 3 stage.
b) The frog's eggs is a jelly-like covering but a chicken egg is a hard covering.

Name : _____ ()

Class : Primary 3 : _____

CHIJ ST NICHOLAS GIRLS' SCHOOL



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Primary 3

Second Semestral Assessment – 2007

SCIENCE

BOOKLET A

12th October 2007

Total Time for Booklets A and B: 1 hour 30 minutes

30 questions

60 marks

Do not open this booklet until you are told to do so.

Follow all instructions carefully.

Answer all questions.

Section A : (30 x 2 marks)

For each question from 1 to 30, 4 options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. The table below shows the conditions under which four different bread samples, A, B, C and D, were kept.

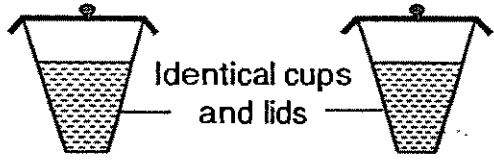
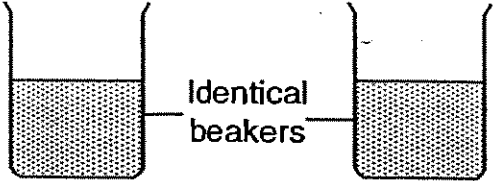
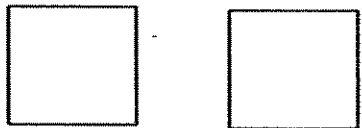
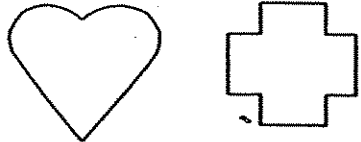
	Bright	Dark	Dry	Moist
Sample A		✓	✓	
Sample B	✓		✓	
Sample C	✓			✓
Sample D		✓		✓

In which bread sample would the most bread mould be found?

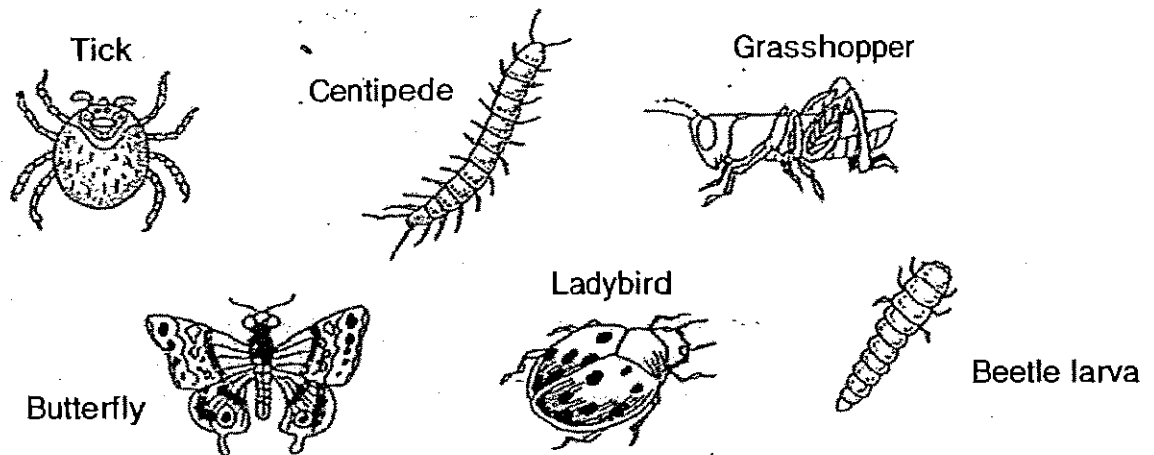
- (1) Sample A
- (2) Sample B
- (3) Sample C
- (4) Sample D

2. Priscilla is blindfolded and given four different sets of items to compare.

Using only her sense of touch, which one of the following sets of items would she not able to compare?

- (1)  Identical cups and lids
Cold orange juice Hot coffee
- (2)  Identical beakers
Tap water Rain water
- (3) 
Sandpaper Plastic sheet
- (4) 
Heart-shaped paper Cross-shaped paper

3. The diagram below shows some animals.



Classify the six animals into 2 groups, X and Y, such that there are only three animals in each group.

	Group X	Group Y
(1)	Has wings	Without wings
(2)	Has feelers	Has no feelers
(3)	Two body parts	Three body parts
(4)	Has six legs	Has more than six legs

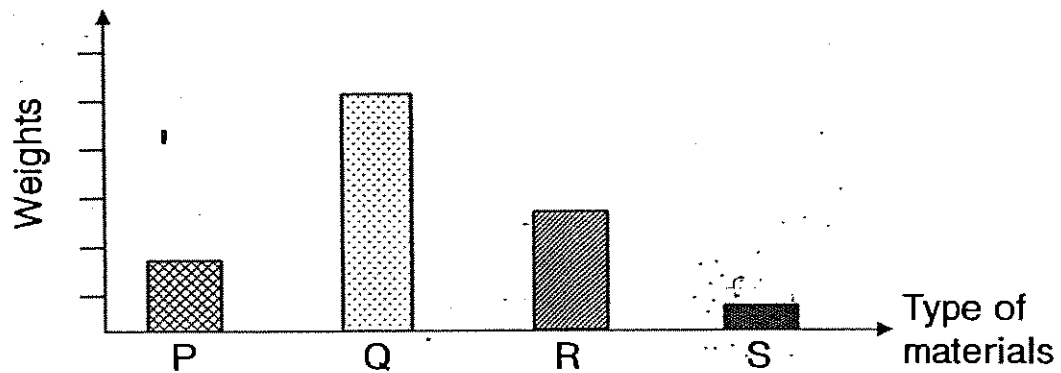
4. Which of the following statements are **true** for all living things?

- ☒ A: They will die eventually.
☐ B: They give birth to their young.
☐ C: They depend on others for food.
☒ D: They go through the same life cycle as their parents.

- (1) A and D only
 (2) B and C only
 (3) A, C and D only
 (4) A, B, C and D

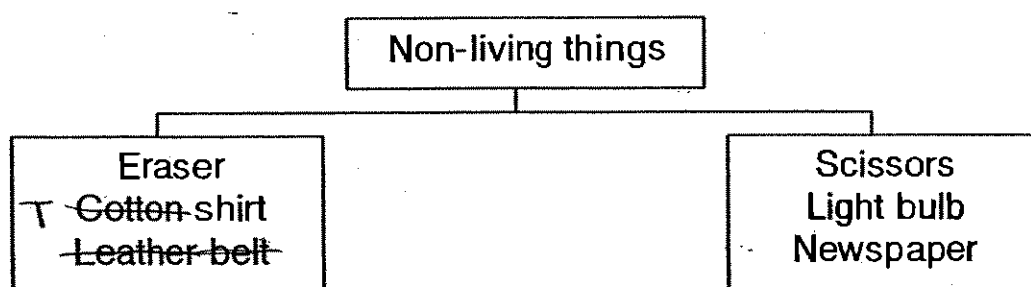
5. Four types of materials, P, Q, R and S of similar lengths, were tied to a retort stand and weights were hung on them until they broke.

The results were recorded in the graph below.



Based on the graph, which one of the following comparisons could be made about the materials?

- (1) Material S is the softest.
 - (2) Material Q is the hardest.
 - (3) Material P is the weakest.
 - (4) Material R is stronger than material P.
6. Study the classification table below.



Which one of the above objects has been **wrongly** classified?

- (1) Eraser
- (2) Scissors
- (3) Newspaper
- (4) ~~Leather belt~~

7. The table below shows how fruits can be grouped.

	One seed	Many seeds
Rough skin	E	G
Smooth skin	F	H

In which box, E, F, G or H, would you place watermelon?

- (1) E
- (2) F
- (3) G
- (4) H

8. Which of the following characteristics are true for all birds?

- ☒ A. They can fly..
- ☒ B. They lay eggs.
- ☒ C. They have feathers.
- ☒ D. They breathe through their lungs.

- (1) A and C only
- (2) A, B and C only
- (3) B, C and D only
- (4) A, B, C and D

9. Which one of the following is **not** a fungus?

- (1) Moss
- (2) Mould
- (3) Toadstool
- (4) Jew's ears

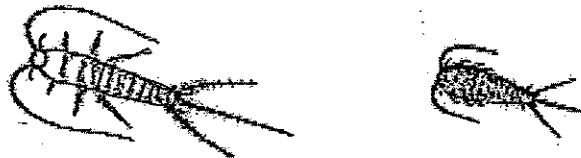
10. Study the classification table as shown below.

Group A	Group B
Cat Molly	Chicken Goldfish

Which one of the following pairs of headings is correct?

	Group A	Group B
(1)	Animals that live on land	Animals that live in water
(2)	Animals that breathes through their gills	Animals that breathes through their skin
(3)	Animals that have fur	Animals that have scales
(4)	Animals that give birth to their young alive	Animals that lay eggs

11. The diagrams below show a silverfish and its young.

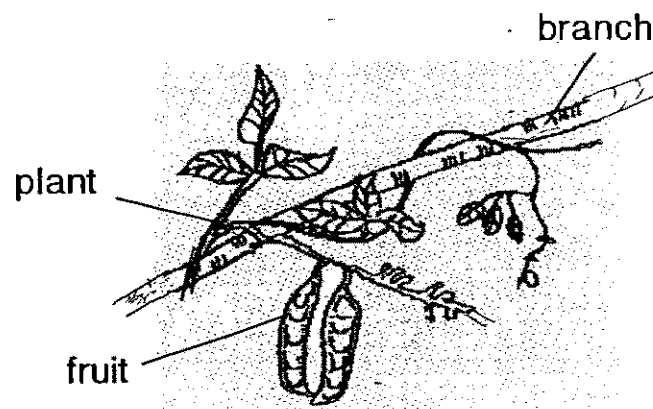


Which of the following statement(s) about the silverfish is/are correct?

- ☒ A: It is an insect.
- ☒ B: It swims in water.
- ☒ C: Its young is called a wriggler.
- ☒ D: It has a similar life cycle as a cockroach.

- (1) B only
- (2) A and D only
- (3) B and C only
- (4) A, C and D only

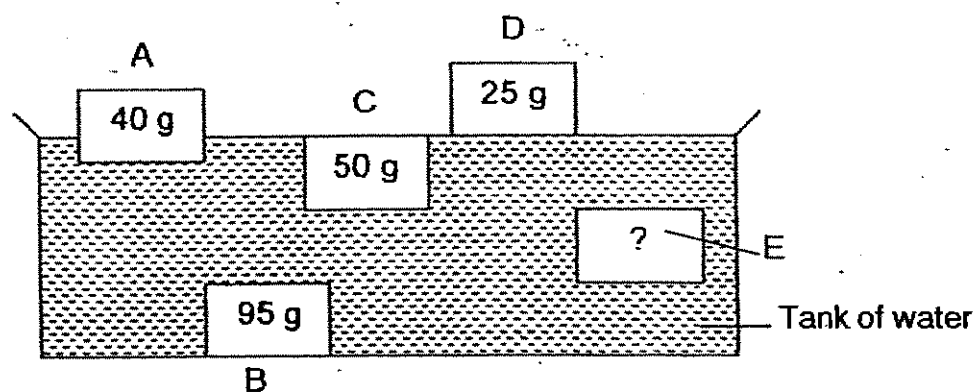
12. Study the diagram below.



Which one of the statements about the above plant is most likely to be true?

- (1) It is a flowering plant.
- (2) It reproduces by spores.
- (3) It cannot make its own food.
- (4) Its stem holds the plant upright.

13. The diagram below shows what happens when 5 objects A, B, C, D and E of the same size but made of different materials are placed in a tank of water.



Which one of the following can object E be?

- (1) 35g
- (2) 50g
- (3) 70g
- (4) 95g

14. Study the following properties of material Z.

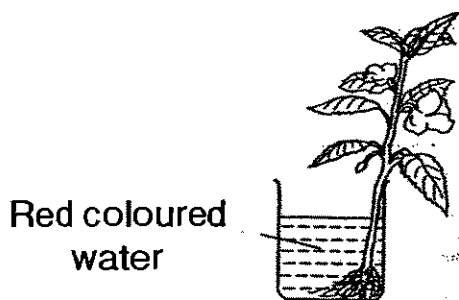
Properties of material Z
Light
Waterproof
Man-made
Light can pass through it

Which one of the following objects is made of material Z?

- (1) paper box
 - (2) glass mug
 - (3) porcelain bowl
 - (4) plastic container
15. What is the function of the large intestine in our digestive system?

- (1) It digests the food.
- (2) It stores the digested food temporarily.
- (3) It takes away water from the undigested food.
- (4) It absorbs the digested food into the blood stream.

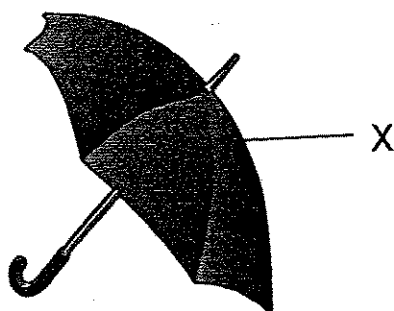
16. James places a plant into a beaker of water. He puts a few drops of red ink into the beaker of water. After a few days, he observes that the white flowers have turned red.



What can he conclude from his observation?

- (1) The flowers are able to absorb water.
- (2) The plant uses its stem to absorb water.
- (3) The stem carries water from the roots to the rest of the plant.
- (4) The stem carries food from the flowers to the rest of the plant.

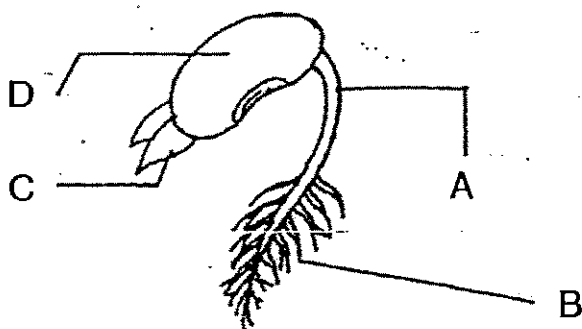
17. The diagram below shows an umbrella with a part marked X.



Which one of the following material will be most suitable for making part X of the umbrella for use during the rainy and sunny days?

	Materials	Transparent	Waterproof	Does not get hot easily	Flexible
(1)	A	Yes	Yes	Yes	No
(2)	B	No	Yes	No	No
(3)	C	No	Yes	Yes	Yes
(4)	D	No	No	No	Yes

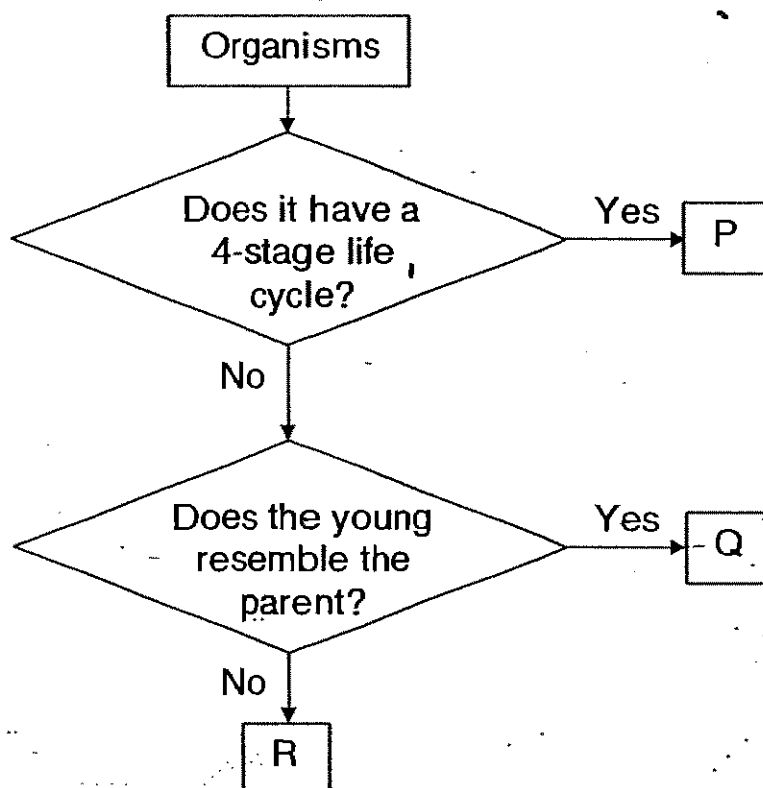
18. The picture below shows a developing seedling.



Which part of the seedling provides it with food?

- (1) A
- (2) B
- (3) C
- (4) D

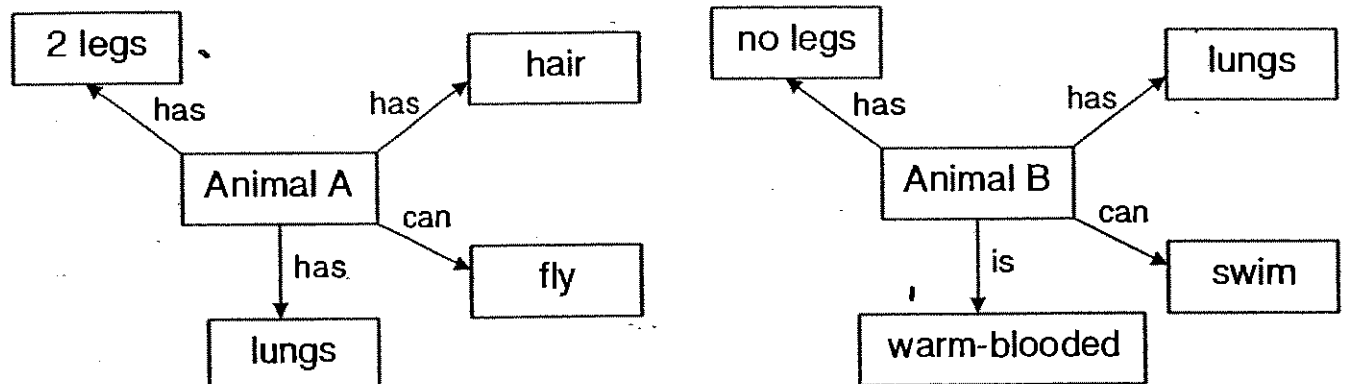
19. Study the flowchart below.



Which one of the following represents P, Q and R correctly?

	P	Q	R
(1)	Ant	Toad	Butterfly
(2)	Grasshopper	Frog	Housefly
(3)	Butterfly	Chicken	Frog
(4)	Moth	Dog	Grasshopper

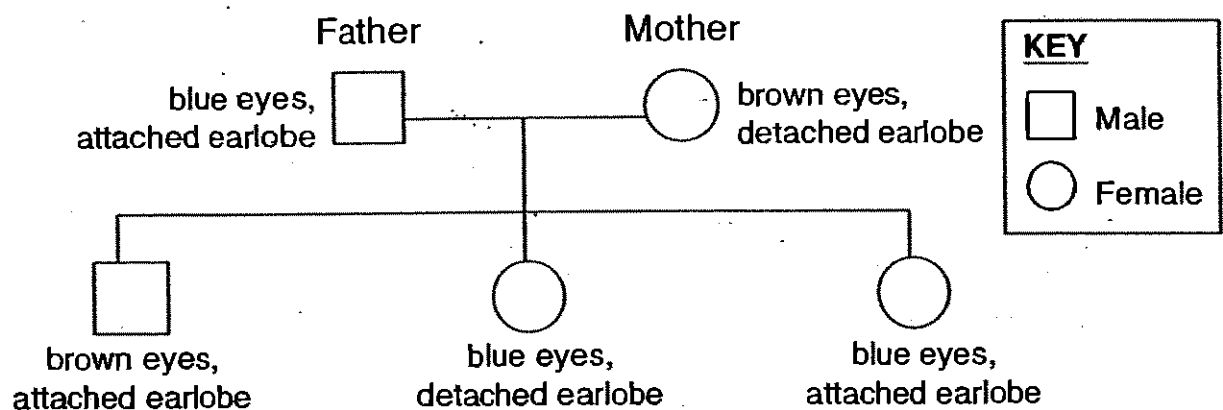
20. Study the diagrams below carefully.



Which of the following animals can Animal A and B be?

	Animal A	Animal B
(1)	Sparrow	Turtle
(2)	Bat	Dolphin
(3)	Eagle	Snake
(4)	Penguin	Whale

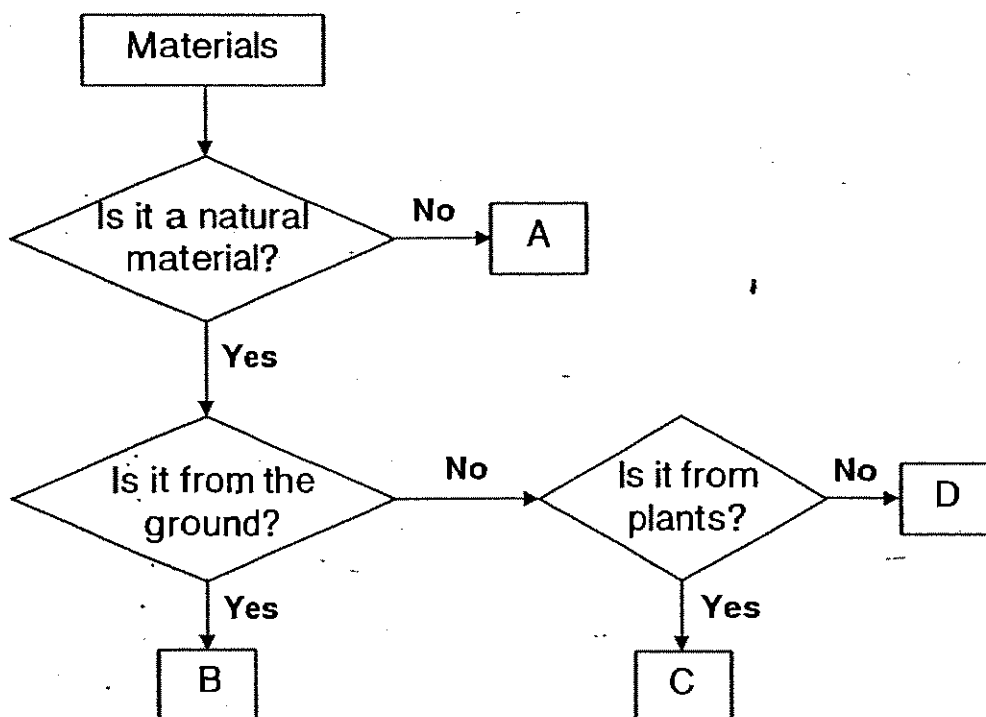
21. The diagram below shows a family tree.



Which one of the following characteristics does the two females in the family inherit from their father?

- (1) blue eyes
- (2) brown eyes
- (3) attached earlobe
- (4) detached earlobe

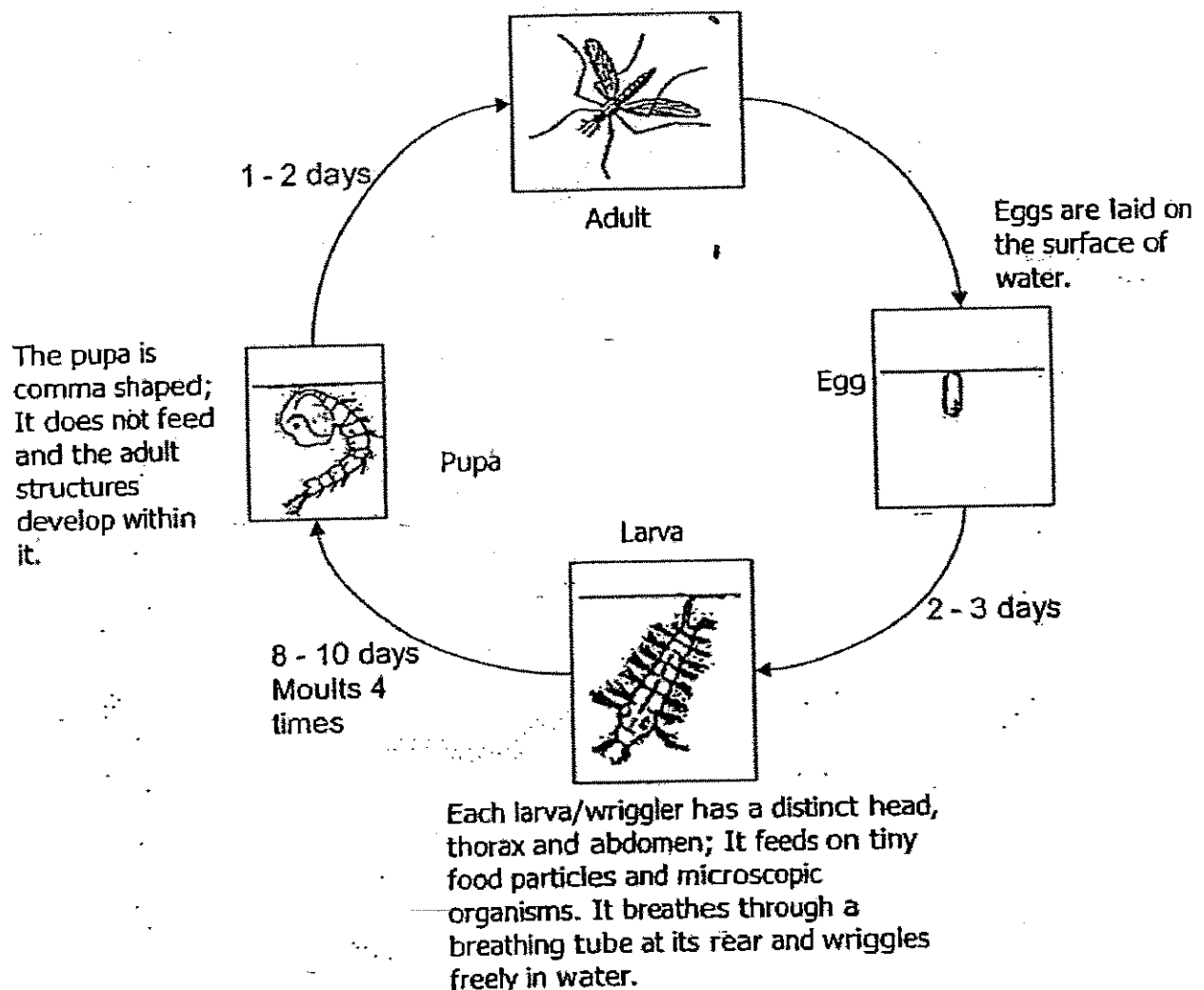
22. Study the flowchart below.



Which one of the following can A, B, C and D be?

	A	B	C	D
(1)	silk	rubber	rocks	metal
(2)	plastic	leather	nylon	rubber
(3)	rubber	metal	glass	leather
(4)	nylon	rocks	rubber	silk

23. Study the diagram below.



Which one of the following statements about the life cycle of the mosquito is correct?

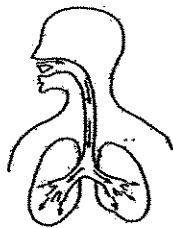
- (1) It moults during the pupa stage.
- (2) The wriggler breathes through its gills.
- (3) The size of the wriggler is twice the size of the pupa.
- (4) It takes about 14 days to turn from an egg into an adult.

24. Which of the following systems work together to enable Roy to play a game of soccer?

- A: skeletal system
- B: muscular system
- C: circulatory system
- D: respiratory system

- (1) A and B only
- (2) C and D only
- (3) A, B and C only
- (4) A, B, C and D

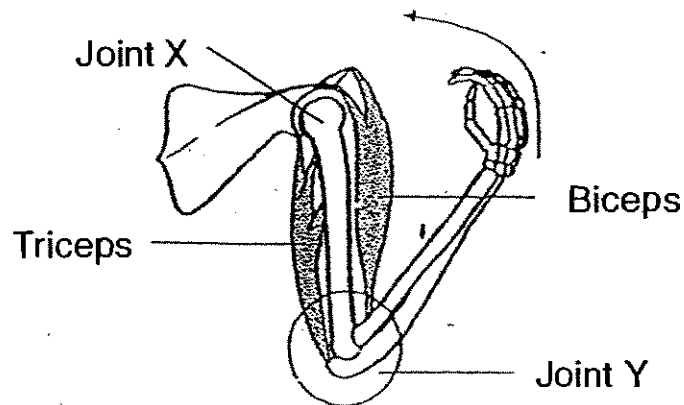
25. The diagram below shows one of the systems in the human body.



What is the function of the above body system?

- (1) To break down food into simpler substances.
- (2) To exchange gases with the air that we breathe.
- (3) To interact with the skeletal system to enable movement.
- (4) To transport oxygen, food and waste materials to different parts of the body.

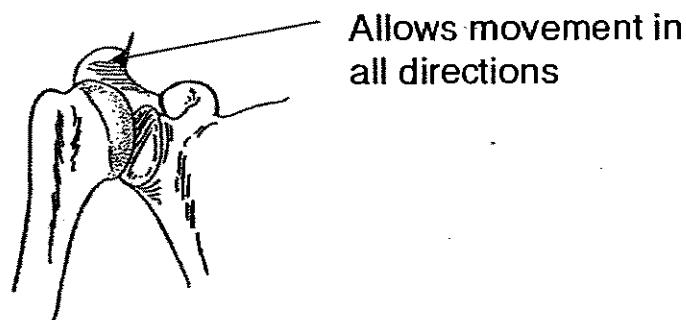
26. The diagram below shows the movement of the joints and muscles when a man touches his shoulder.



Which one of the following correctly shows the joint and the movement of the muscles when the above action takes place?

	Joint	Biceps	Triceps
(1)	X	Contracts	Relaxes
(2)	X	Relaxes	Contracts
(3)	Y	Contracts	Relaxes
(4)	Y	Relaxes	Contracts

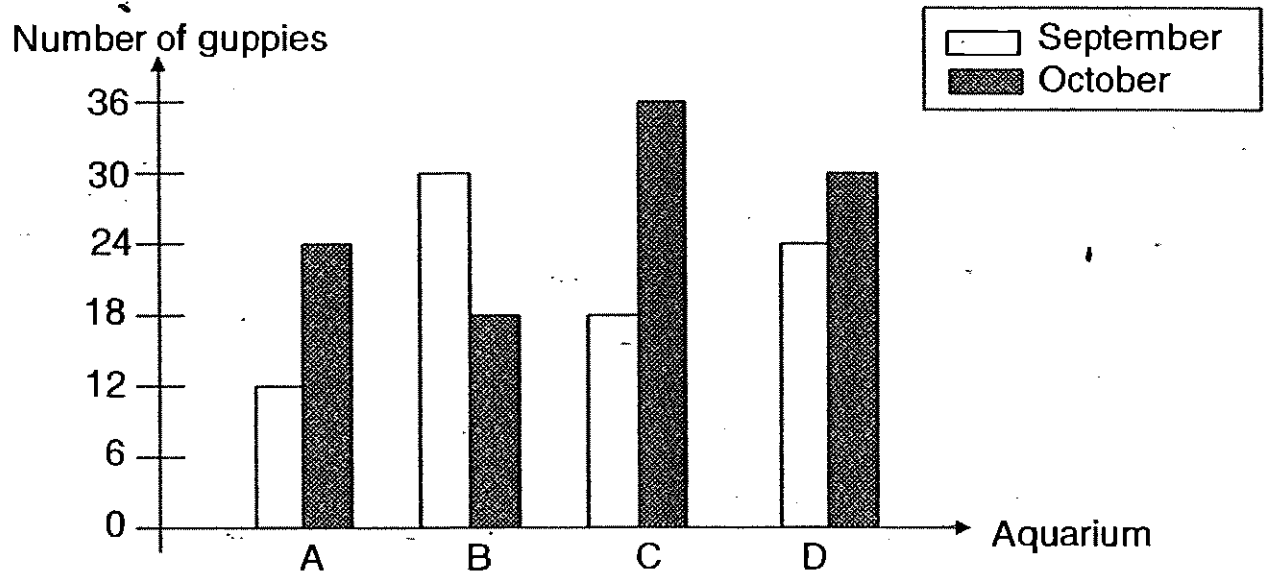
27. The diagram below shows a kind of joint in our body.



Which one of the following can this kind of joint be found?

- (1) hip
- (2) toes
- (3) knee
- (4) finger

28. The number of guppies in four aquariums, A, B, C and D were recorded in a graph over a period of two months.



Which aquarium shows the greatest increase in the number of guppies after two months?

- (1) Aquarium A
- (2) Aquarium B
- (3) Aquarium C
- (4) Aquarium D

29. Which of the following are functions of the skeleton?

- A It protects our stomach.
- B It gives our body its shape.
- C It protects important organs inside the body from injury.
- D It allows the muscles to attach themselves to enable the body to move.

- (1) B and C only
- (2) A and D only
- (3) B, C and D only
- (4) A, B, C and D only

30. A boy raises his hand to hit a shuttlecock with a badminton racket as shown in the diagram below.



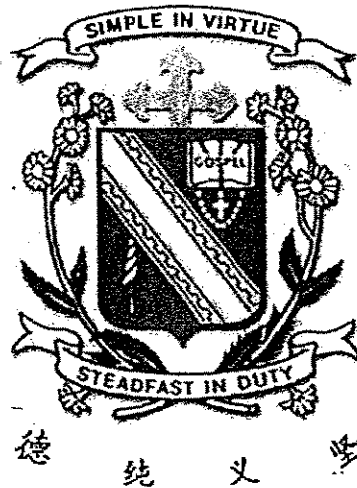
Which of the following joint(s) in the boy's upper body will enable him to carry out his action?

- A: Hip joint
 - B: Knee joint
 - C: Elbow joint
 - D: Shoulder joint
- (1) A and C only
 - (2) C and D only
 - (3) A, B and D only
 - (4) A, B, C, D

******* End of Section A *******

Name : _____ ()

Class : Primary 3 _____

CHIJ ST NICHOLAS GIRLS' SCHOOL

Primary 3
Second Semestral Assessment – 2007
SCIENCE

BOOKLET B**12th October 2007****Total Time for Booklets A and B: 1 hour 30 minutes****16 questions**
40 marks

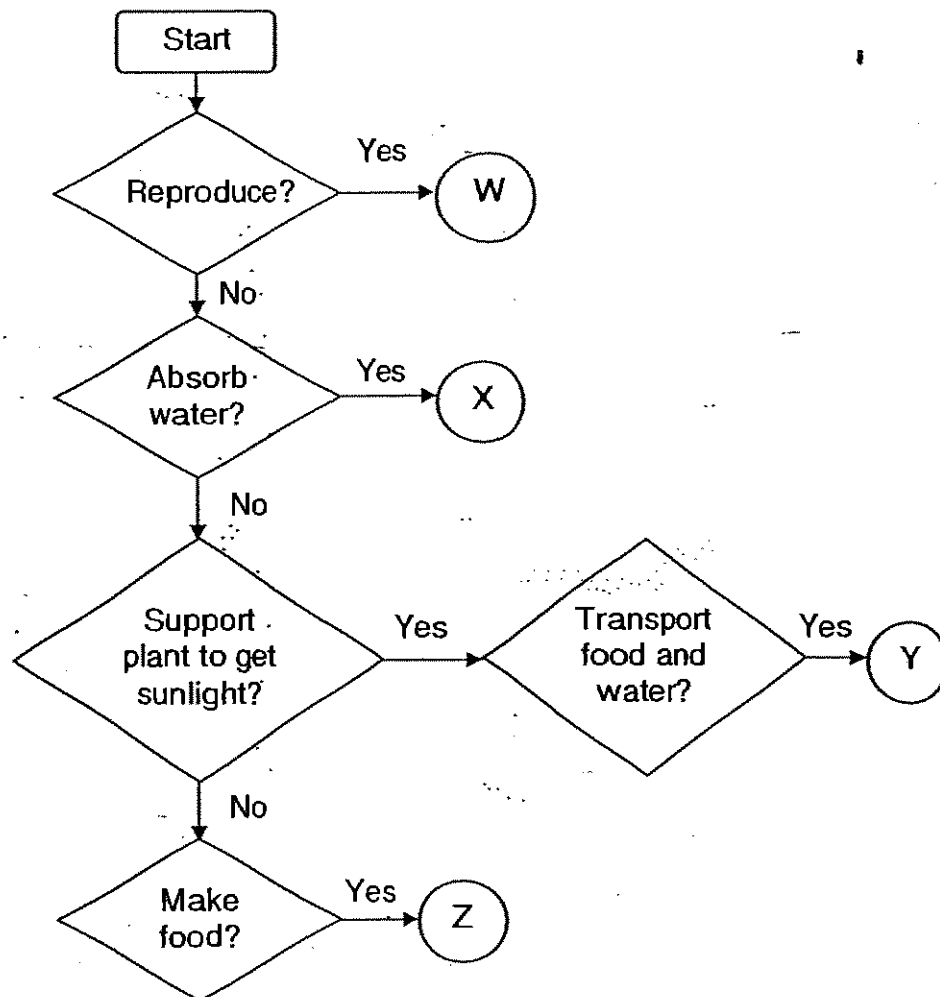
Booklet A	60
Booklet B	40
Total	100

Do not open this booklet until you are told to do so.
Follow all instructions carefully.

Parent's Signature/Date

Section B : (40 marks)**Answer all questions in the space provided.**

31. The flowchart below describes the functions of some parts of the plant.

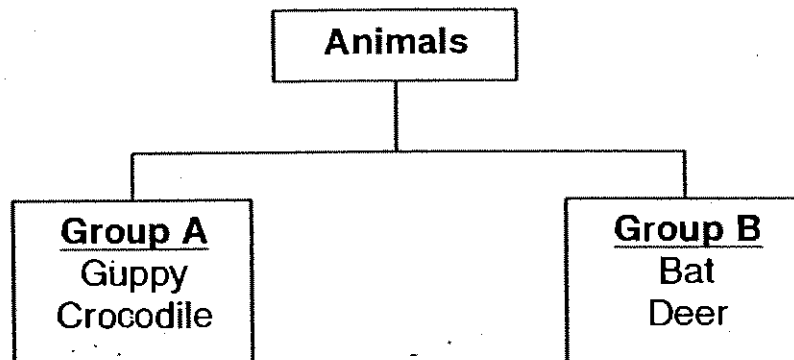


Based on the flowchart, identify the parts of the plant for each of the following: (2 marks)

- (i) W : _____
- (ii) X : _____
- (iii) Y : _____
- (iv) Z : _____



32. Study the classification table below.



- (a) Give a suitable heading for Group A and Group B. (1 mark)
- (i) Group A: _____
- (ii) Group B: _____
- (b) Which one of the above animals is different from the rest in terms of the way it reproduces? (1 mark)
- _____
- (c) Explain your answer in (b). (1 mark)
- _____

33. The table below shows the sense organs, S, T, U and V, which Tanya used to make the following observations:

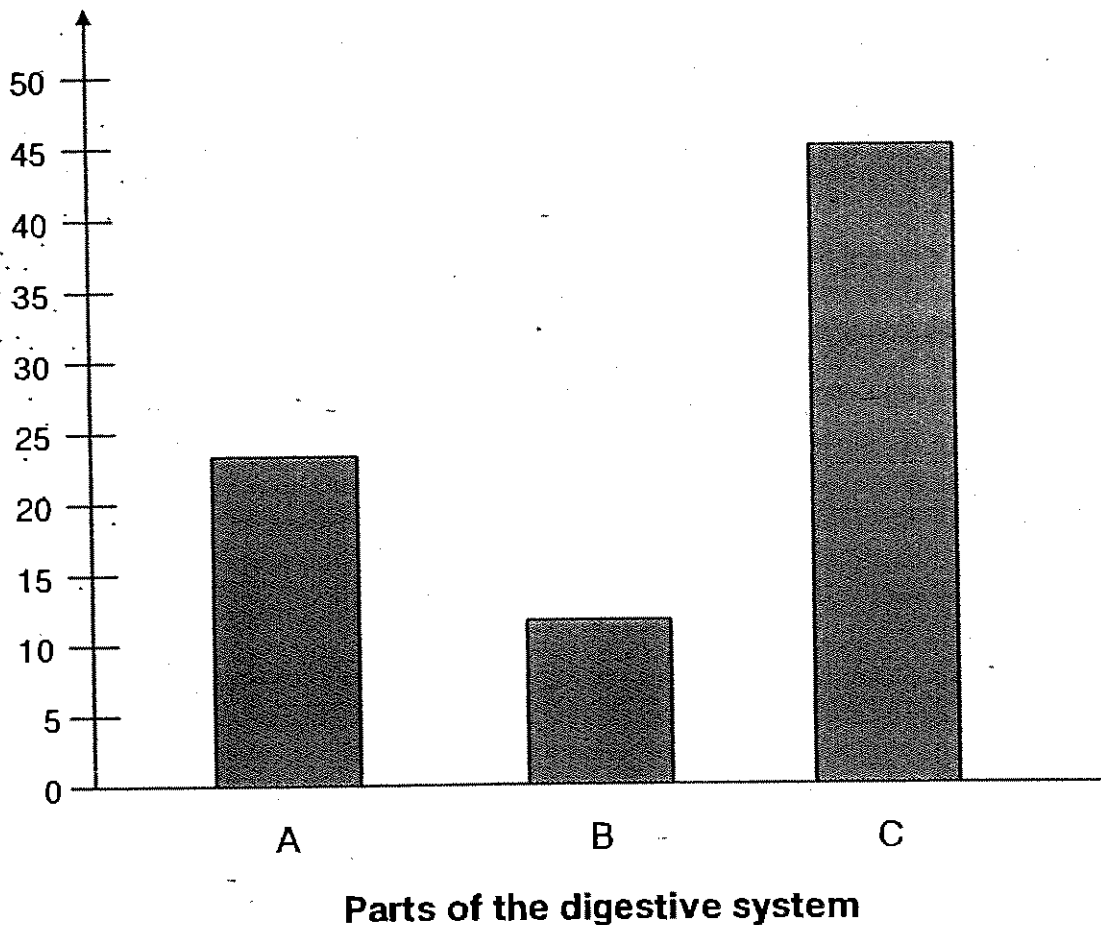
Sense Organ	S	T	U	V
Observation				
The teddy bear is brown and soft.	√			√
The tap is leaking.				√
The flower is fragrant and its petals are soft.	√	√		
The lime is sour.			√	

Identify the following sense organs which Tanya used to make her observations. (2 marks)

- (i) S : _____
- (ii) T : _____
- (iii) U : _____
- (iv) V : _____

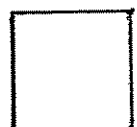
34. Nixon ate 50 grams of food during his recess. The graph below shows the amount of food digested by 3 different parts A, B and C of the digestive system.

Amount of food digested (g)

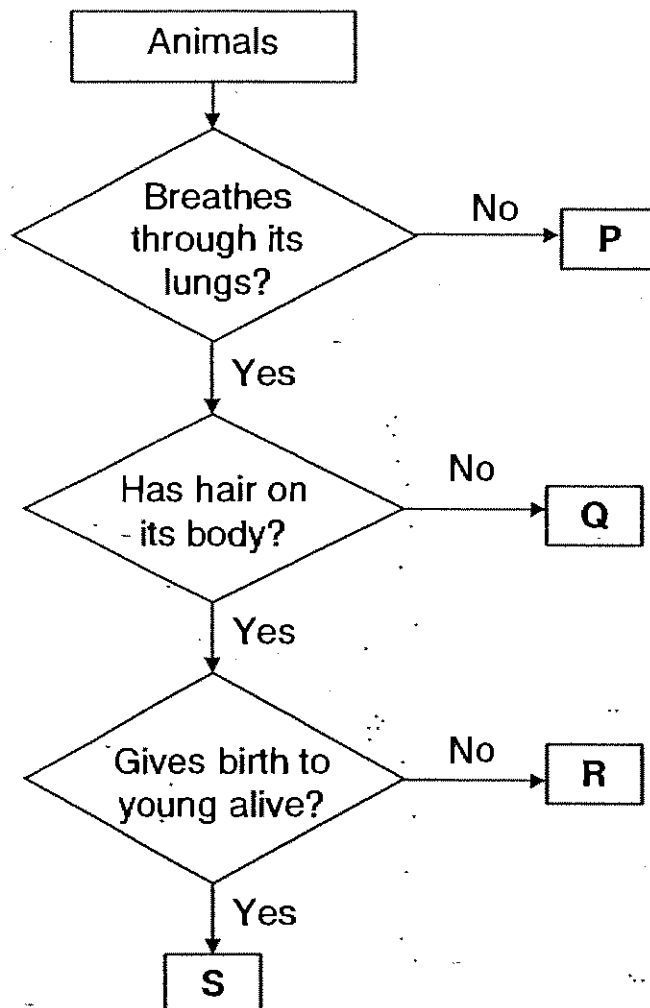


- (a) Which part of the digestive system does A most likely represent? (1 mark)

- (b) What is the function of part C in the digestive system? (1 mark)

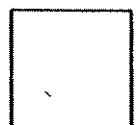


35. The flowchart below shows how some animals are grouped.

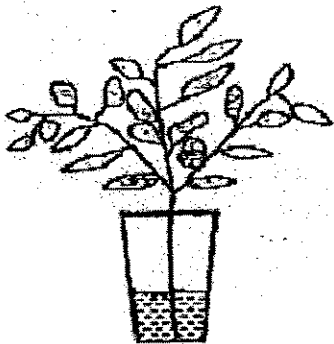


(a) What are two similarities between animals R and S?

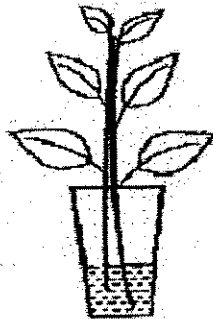
(b) Name two animal groups which can be placed in P. (1 mark)



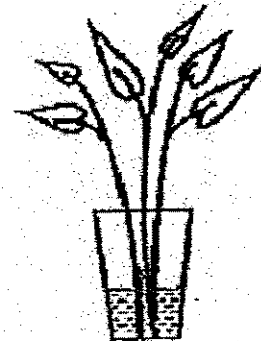
36. Three types of plants were placed into three identical containers A, B and C which were filled with 200ml of water each.



Container A



Container B



Container C

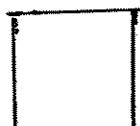
The volume of water in each container was recorded on the 7th day as shown in the table below.

Container	Volume of water (ml)	
	Day 1	Day 7
A	200	181
B	200	176
C	200	200

- (a) Which of the following containers, A, B or C, contained a plastic plant? (1 mark)

- (b) Explain why there was a drop in the water level in containers A and B after 7 days. (1 mark)

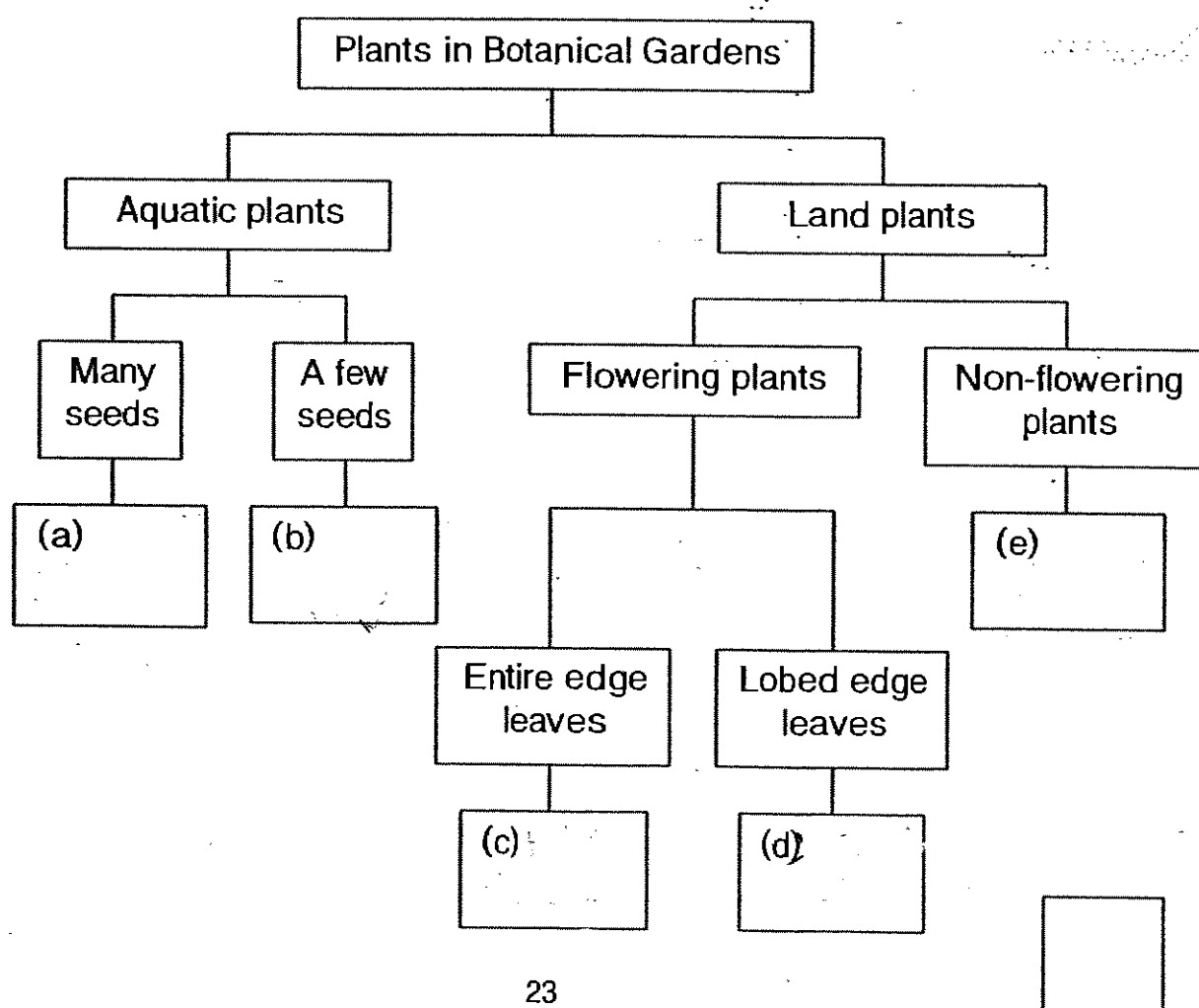
- (c) From this experiment, what can we conclude about the needs of a living thing? (1 mark)



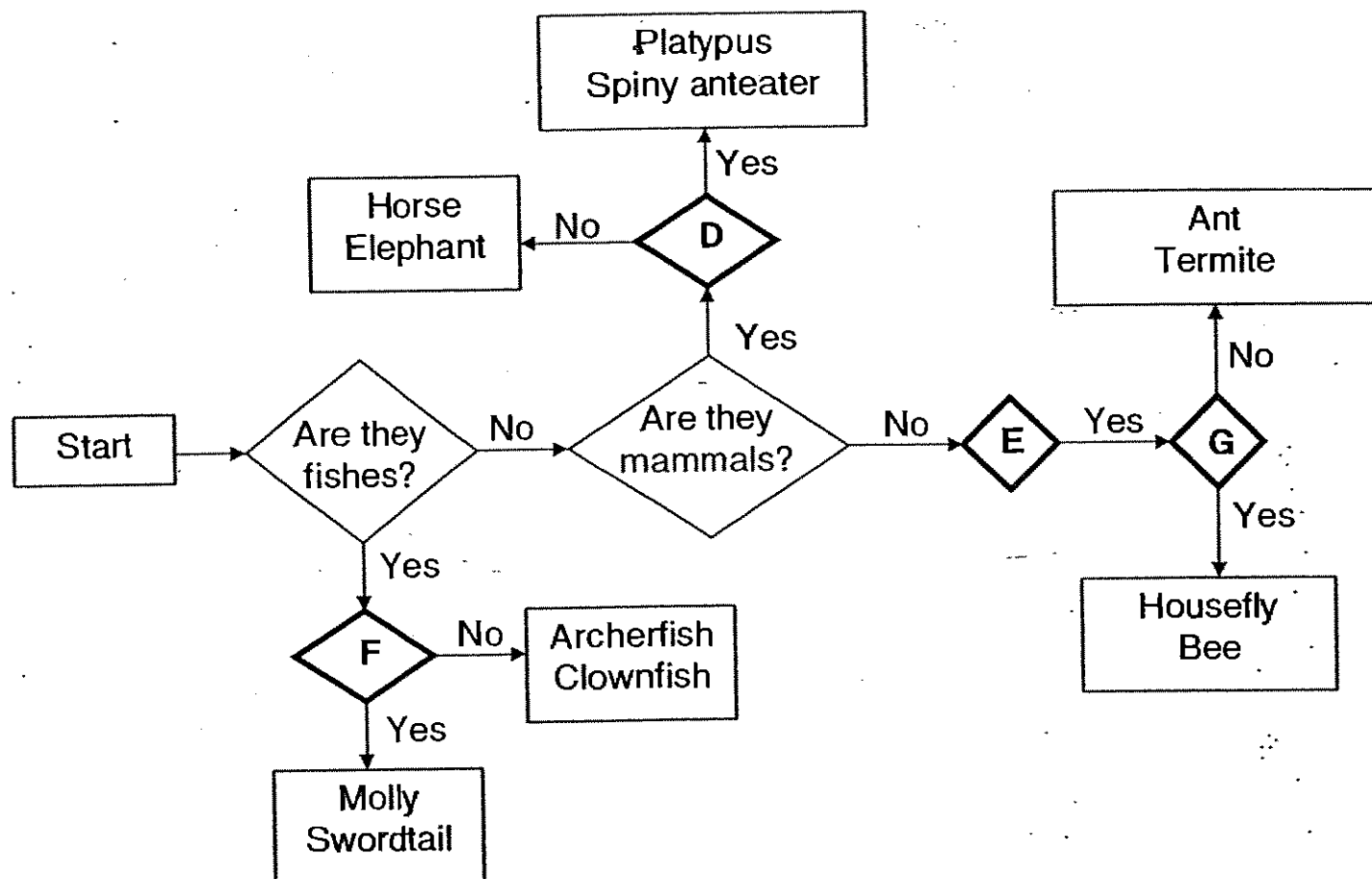
37. Ahmad, Belle and Candy went for a learning journey to the Botanical Gardens. They discovered some plants which they have not seen before. They observed the plants carefully and recorded their observations in the table below.

Plant	Type of plant	Seed	Leaf	Where can the plant be found?
A	Flowering plant	Many	Lobed edge	Water
B	Flowering plant	Many	Lobed edge	Land
C	Flowering plant	A few	Toothed edge	Water
D	Non-flowering plant	-	Entire edge	Land
E	Non-flowering plant	-	Entire edge	Land
F	Flowering plant	A few	Entire edge	Land

Based on the observations given in the table above, classify all the plants by placing the letters (A to F) in the boxes provided below. (3 marks)



38. Study the flowchart on animals below.



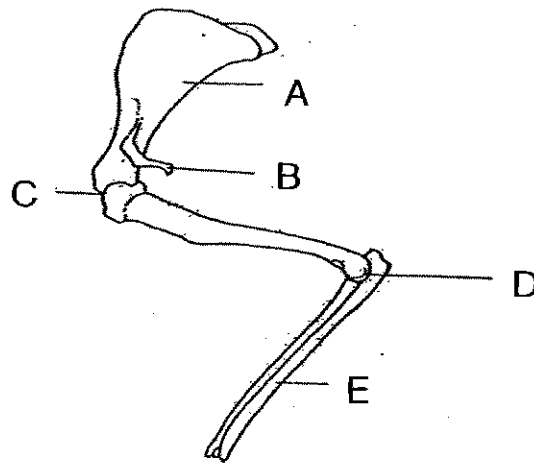
The letters D, E, F and G each represent a question that classifies the organisms suitably.

Write the letter, D, E, F or G in the correct boxes below to indicate the question they represent. Each letter can only be used once. (2 marks)

	Questions	Letter
i)	Can they fly?	
ii)	Can they swim?	
iii)	Are they insects?	
iv)	Are they reptiles?	
v)	Do they lay eggs?	
vi)	Do they give birth to their young alive?	



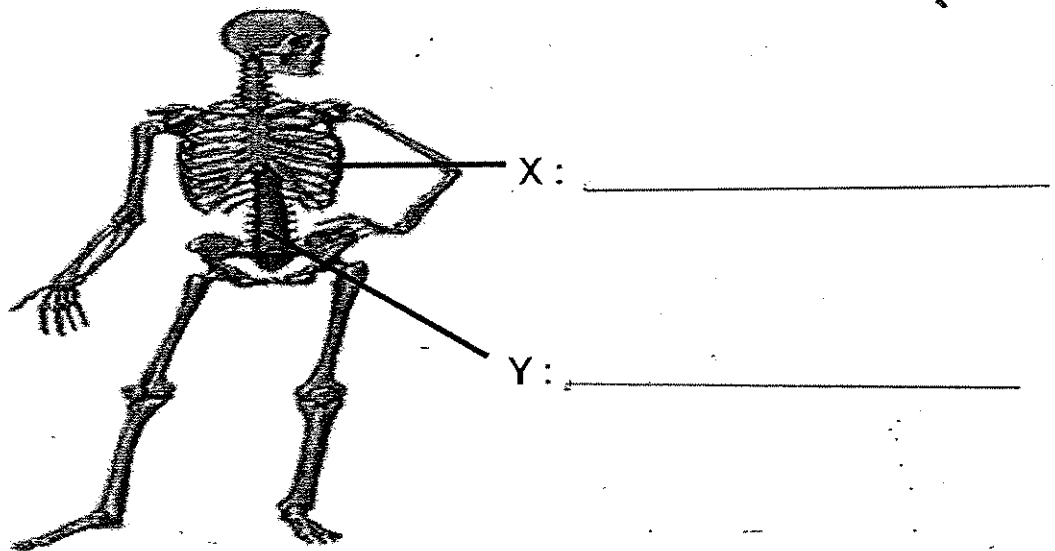
39. The diagram below shows parts of the skeletal system of an animal.



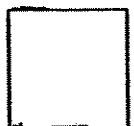
- (a) Which two parts, A, B, C, D or E, are joints in the limb as shown above? (1 mark)

- (b) Give a reason why joints are needed in the limbs. (1 mark)

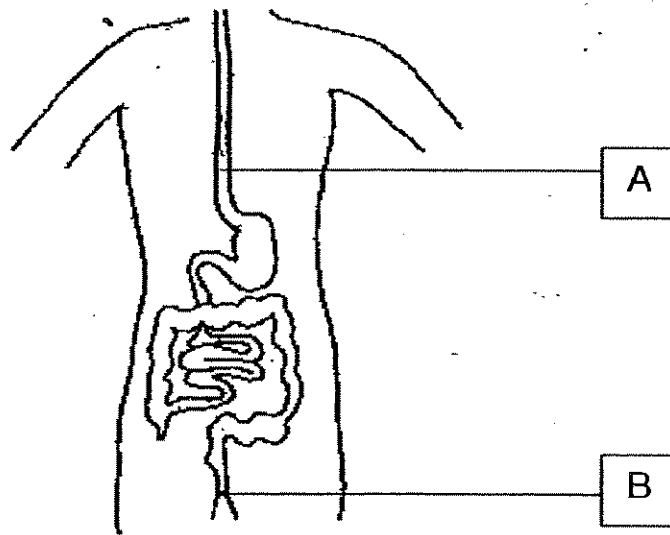
40. The diagram below shows a skeleton of a man.



- (a) Identify the names of the parts marked X and Y by writing in the space provided. (2 marks)
- (b) What is the common function of these two parts of the skeleton? (1 mark)



41. The diagram below shows part of our digestive system.



(a) What is the function of parts A and B? (2 marks)

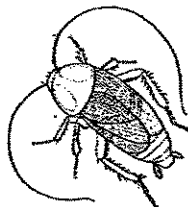
(i) Part A : _____

(ii) Part B : _____



(b) Digestion of food takes place in another part of the digestive system that is not shown in the diagram above. Name this part. (1 mark)



42. The diagram below shows a cockroach and a frog.



- (a) Complete the life cycles of the cockroach and the frog in the boxes below. (1 mark)

(i) Life cycle of a cockroach	(ii) Life cycle of a frog
<p>Adult cockroach</p> 	<p>Adult frog</p> 

- (b) State one difference and one similarity between the life cycle of a cockroach and a frog. (2 marks)

(i) Difference: _____

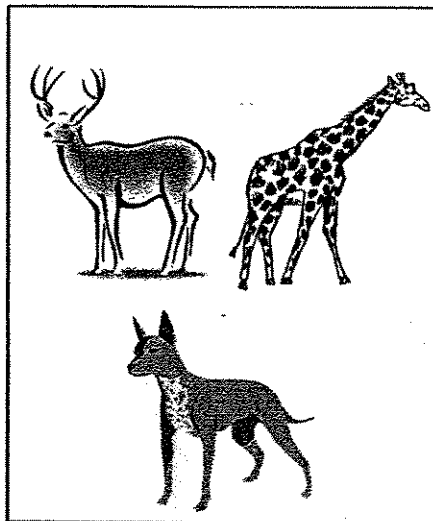
(ii) Similarity: _____



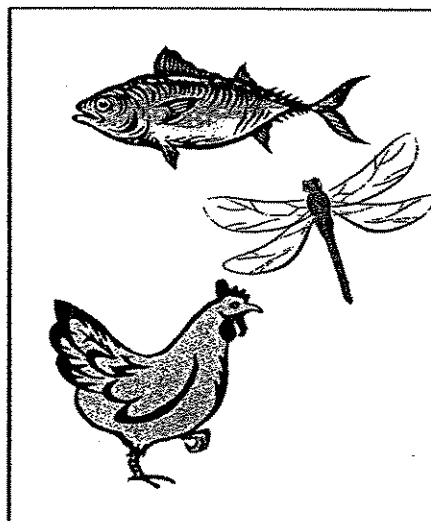
43. (a) State one way in which ferns and mushrooms are similar in the way they reproduce. (1 mark)

- (b) How do the ferns and mushrooms get food? (1 mark)

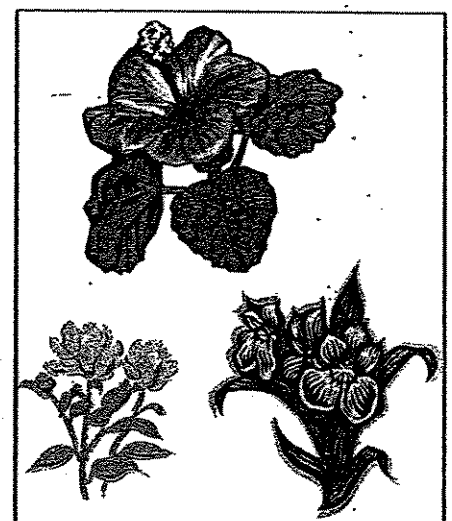
44. Study the diagrams below carefully



Group A



Group B



Group C

- (a) How are the living things in groups A, B and C classified? (1 mark)

- (b) Explain your answer clearly in (a). (2 marks)

45. Charlie has two similar pots of soil, labelled A and B. He puts 3 seeds in each pot. He places Pot A in a dark cupboard and Pot B in a place with light.

Charlie observes the seeds and records their growth daily. The heights of the seedlings are shown in the graph below.

Pot A

	Height of seedling (cm)					
Bean	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	0	0	1.5	3.2	4.8	6.9
2	0	0	1.4	3.0	5.2	7.0
3	0	0	1.7	3.1	5.0	7.1

Pot B

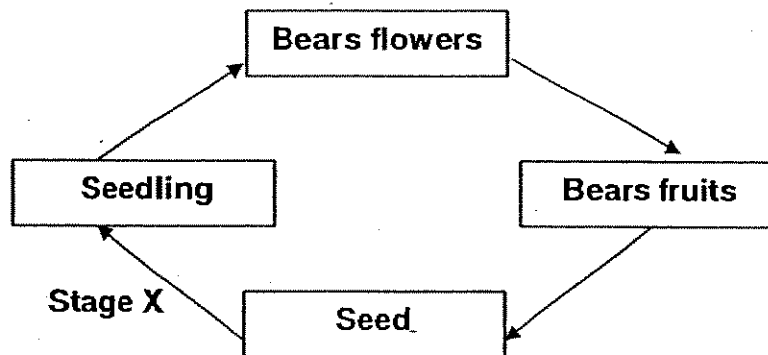
	Height of seedling (cm)					
Bean	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
1	0	0	0.9	1.8	3.2	5.4
2	0	0	1.0	2.0	3.0	5.0
3	0	0	0.8	2.1	3.1	4.9

Study the statements below and indicate whether each of the following statements is 'True', 'False' or 'Not Possible to Tell' by putting a tick (✓) in the correct box. (2 marks)

	Statements	True	False	Not Possible to Tell
(a)	All the seeds in the pots germinated by the second day.			
(b)	All the seeds are obtained from the green bean plant.			
(c)	The seeds in Pot A are able to germinate without light.			
(d)	Seedlings in the light are shorter than seedlings in the dark.			



46. The diagram above shows the stages of growth of a plant.

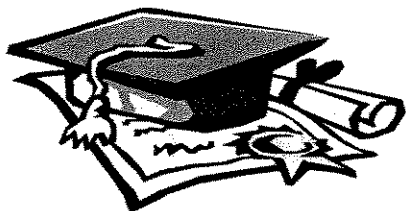


- (a) State/all the conditions needed in Stage X for the seed to grow into a seedling. (1 mark)
-

- (b) What is the function of the seed in the life cycle of a plant?
-

- (c) Give an example of a plant that does not follow the above order of development. (1 mark)
-

******* End of Paper *******



ANSWER SHEET

CHIJ PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 4
2. 2
3. 1
4. 1
5. 4
6. 3
7. 4
8. 3
9. 1
10. 4
11. 2
12. 1
13. 3
14. 4
15. 3
16. 3
17. 3
18. 4
19. 3
20. 2
21. 1
22. 4
23. 4
24. 4
25. 2
26. 3
27. 1
28. 3
29. 3
30. 2
- 31) i) seed ii) roots
 iii) stem iv) leaves
- 32) a) i) covered with scales.
 ii) covered with fur.
 b) crocodile.
 c) Crocodile lay eggs while the
 other give birth.
- 33) i) Skin ii) nose iii) tongue
 iv) eyes
- 34) a) Stomach.
 b) H digest food further so that the
 digested food can enter the
 blood stream.
- 35) a) They breathe through their lungs
 and have hair on their body.
 b) Insect and fish.
- 36) a) Container C.
 b) Because the plant absorb water.
 c) Living things need water.
- 37) a) A b) C c) F d) B e) D, E
- 38) i) G ii) iii) E iv) v) D vi) F
- 39) a) C and D
 b) Joints helps us to bend.

41) a) i) A is to transport the food to the stomach.
ii) B is to pass out undigested food.
b) Mouth

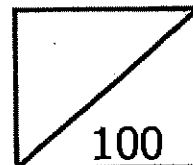
b) i) Frog lay eggs in water but cockroach lay eggs on land.
ii) They both have three stages in their life cycle.

44)a) According to the way they reproduce.
b) Group A give, Group B lay eggs & Group C reproduce from seed.

46) a) Air, water and warmth.
b) To reproduce.
c) Onion.



Rosyth School
Second Semestral Assessment for 2007
SCIENCE
Primary 3



Name: _____

Total
Marks:

Class: Pr _____

Register No. _____

Duration: 1 h 30 min

Date: 1 November 2007

Parent's Signature: _____

Instructions to Pupils:

1. Do not open the booklets until you are told to do so.
2. Follow all instructions carefully.
3. This paper consists of 2 booklets, Booklet A and Booklet B.
4. For questions 1 to 30 in Booklet A, shade the correct ovals on the Optical Answer Sheet (OAS) provided using a 2B pencil.
5. For questions 31 to 46, give your answers in the spaces given in the Booklet B.

	Maximum	Marks Obtained
Booklet A	60 marks	
Booklet B	40 marks	
Total	100 marks	

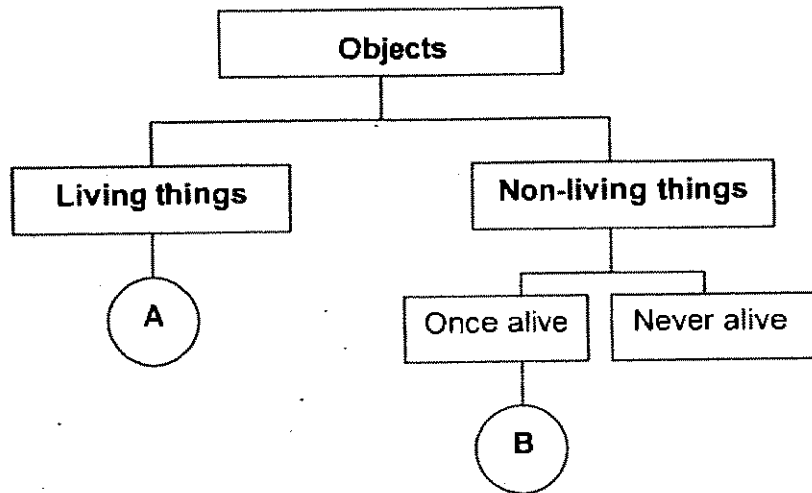
* This booklet consists of 12 pages . (Pg. 1 to 12)

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Part I (60 MARKS)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). **Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.**

1. Look at the classification chart below.



Which of the following represents A and B correctly?

	A	B
(1)	Bread mould	Leather sofa
(2)	Guinea pig	Plastic bag
(3)	Horseshoe magnet	Wooden stool
(4)	Apple pie	Caterpillar

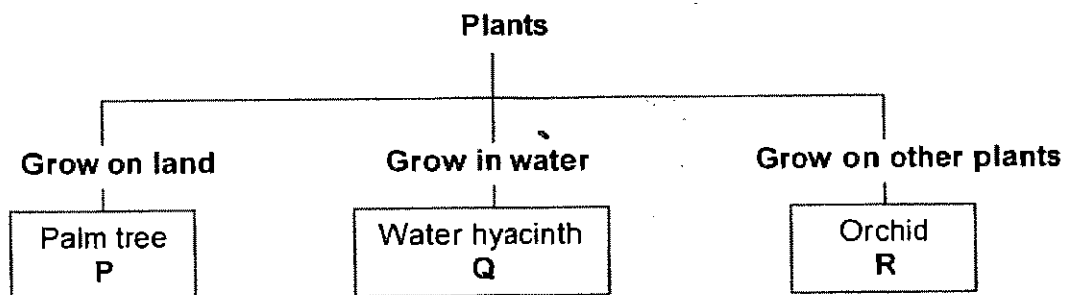
2. The living things shown below are grouped based on the type of food they eat.

Herbivores	Carnivores	Omnivores
Butterfly	Giraffe	Duck
Deer	Tiger	Pig
Bee	Dragonfly	Chicken

Identify the animal that has been classified incorrectly?

- | | |
|-------------|---------------|
| (1) Bee | (2) Pig |
| (3) Giraffe | (4) Dragonfly |

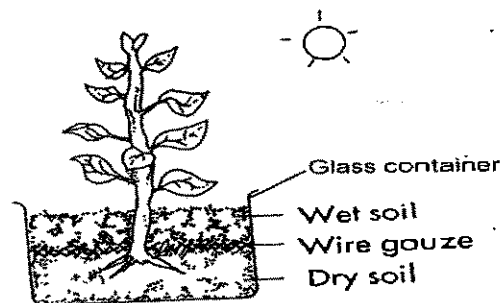
3. Study the classification chart below.



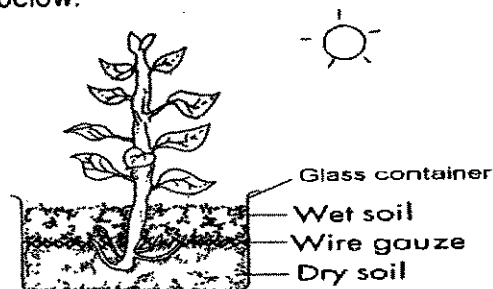
Which one of the following sets of plants can be represented by P, Q and R?

	P	Q	R
(1)	Cactus	Allamanda	Angsana
(2)	Cattail	Water lettuce	Stag's horn fern
(3)	Lantana	Water lily	Rambutan
(4)	Morning glory	Hydrilla	Bird's nest fern

4. Carolyn grew a small plant in a glass container. She set up the container as shown below.



After a few days, she observed that the roots of the plant had shown some movement as shown below.



What does this tell us about the characteristics of plants?

- (1) All parts of plants always move upwards.
- (2) Roots respond towards water and light.
- (3) Roots move in search of water.
- (4) Roots move up to receive light.

5. Which of the following will not make their own food even when air, water and sunlight are present?

A: Button mushroom
 B: Maidenhair fern
 C: Seaweed
 D: Toadstool
 E: Jew's ears

- (1) A, B and C only (2) A, D and E only
 (3) B, C and D only (4) C, D and E only

6. Ivan found an animal in a garden. He wanted to confirm if the animal found was an insect. Which of the following characteristics should he observe?

A: The number of legs
 B: The presence of wings
 C: The diet of the animal
 D: The number of body parts

- (1) A and B only (2) A and D only
 (3) A, B and C only (4) A, C and D only

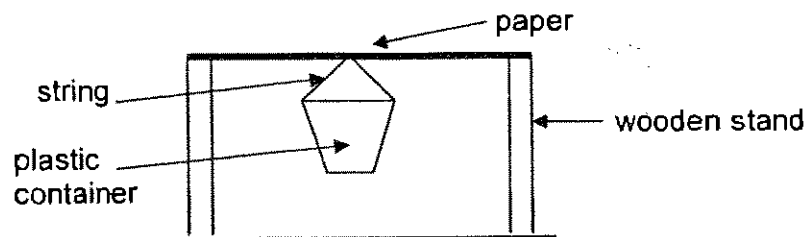
7. The table below shows the characteristics of three objects **W**, **X** and **Y**.

	W	X	Y
Bends easily	✓	✓	✓
Gets stretched easily	✓	✓	x
Absorbs water	x	✓	✓

Which one of the following sets of objects best fits the description in the table above?

	W	X	Y
(1)	Swim suit	Paper	Rubber band
(2)	Paper	Swim suit	Rubber band
(3)	Rubber band	Sponge	Paper
(4)	Paper	Rubber band	Swim suit

8. Mr Tan set up an experiment as shown below to find out the strength of different types of paper.

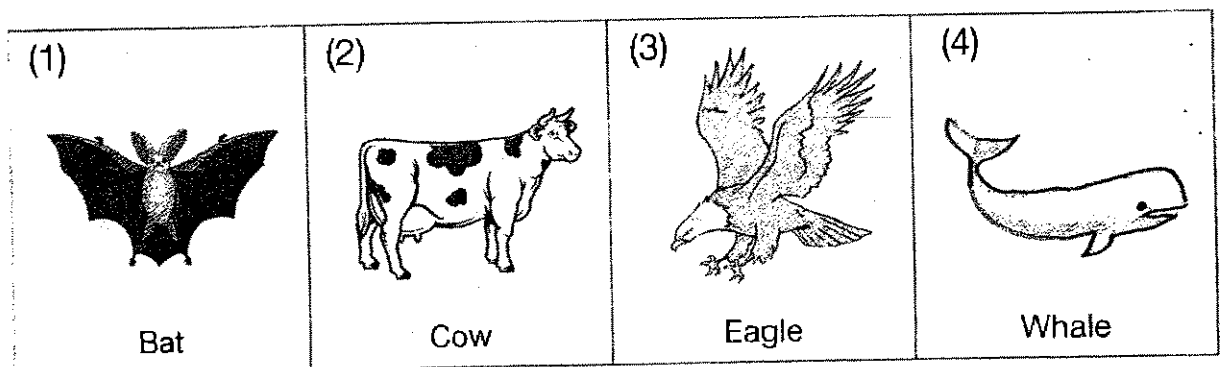


The number of coins the plastic container could hold before the paper tore was recorded in the table below.

Type of paper	Number of coins
Tissue paper	1
Art paper	10
Newspaper	4
Waxed paper	8

Based on the above results, which type of paper is the strongest?

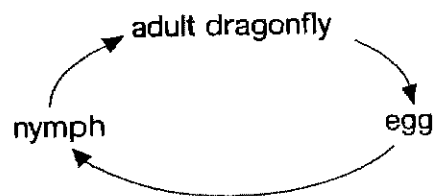
- (1) Tissue paper (2) Art paper
(3) Newspaper (4) Waxed paper
9. Look at the different animals as shown in the pictures below. Which animal reproduces differently from the others?



10. Cycles follow a pattern and repeat the pattern. Which of the following is not a cycle?

- (1) Movement of the Moon around the Earth
(2) Changes from day to night
(3) Changes in seasons
(4) Changes in weather in a day

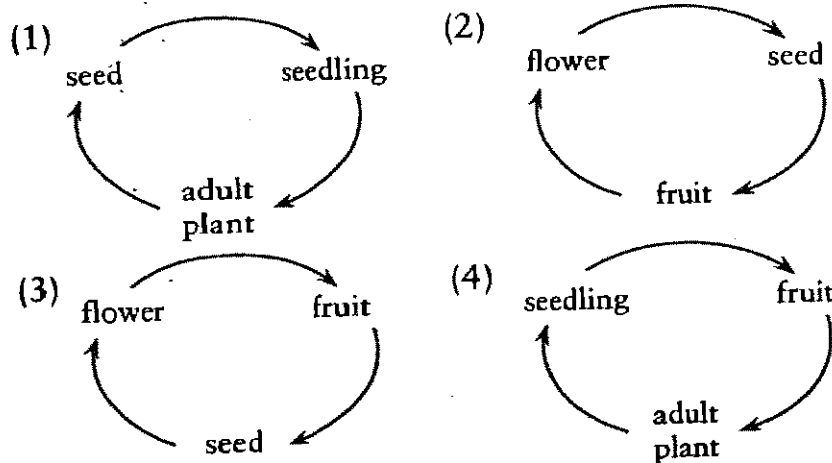
11. The diagram below shows the life cycle of a dragonfly.



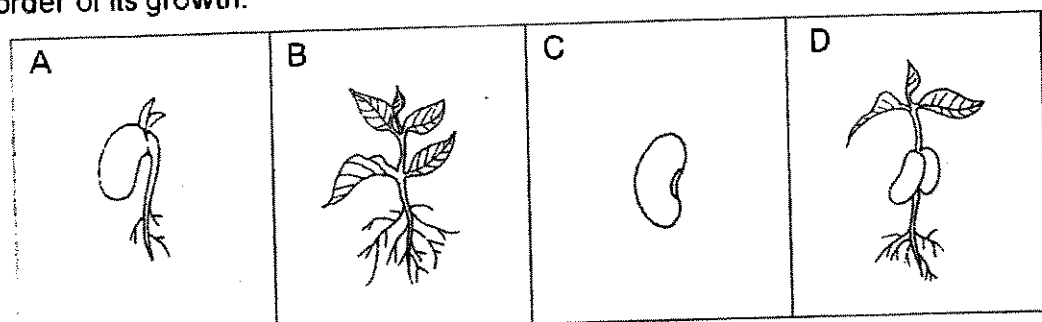
Which of the following animals goes through the same life cycle as the dragonfly?

- (1) Housefly (2) Mosquito
(3) Rabbit (4) Cockroach

12. Study the 4 cycles shown below carefully. Which one of the following shows the life cycle of a plant correctly?



13. The stages of a seedlings' growth is shown below. This is not in the correct order of its growth.



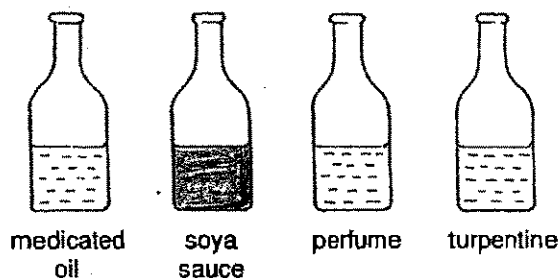
At which stage(s) is the seedling able to make its own food?

- (1) B only (2) C only
(3) A and B only (4) B and D only

14. When a baby is born, the baby takes on some of the characteristics of his/her parents. Which one of the following is not passed on to the baby as a physical characteristic?

- | | |
|-------------------|------------------------|
| (1) Hair Colour | (2) Fingerprints |
| (3) Shape of face | (4) Colour of the eyes |

15. In an experiment, Peter was asked to pick out the bottle that contained some medicated oil.



Which sense organs would help him pick out the right bottle without touching them?

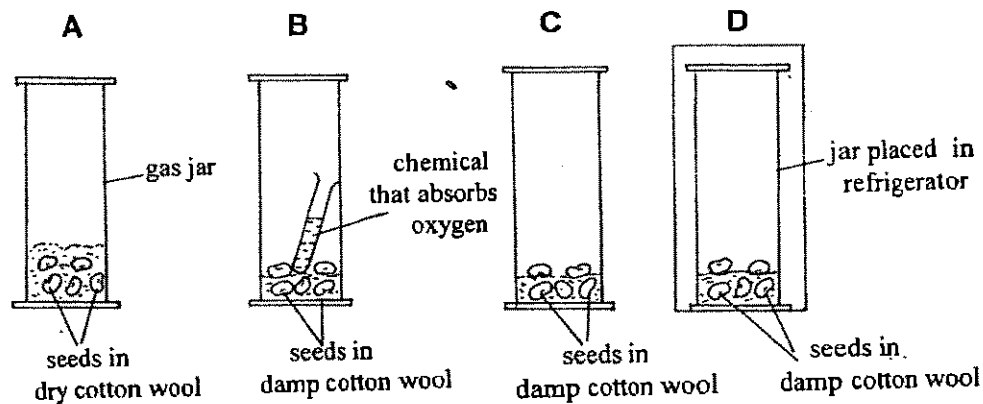
- | | |
|------------------------------|-------------------|
| (1) Eyes and tongue | (2) Nose and ears |
| (3) Ears and nose | (4) Nose and eyes |

16. Ahmad made a few statements about his surrounding. Which of the following statements he made requires him to use his sense of hearing?

- A: I read that it may rain later this afternoon.
B: The weather is very warm and humid today.
C: The strong wind is howling.
D: The leaves in the trees are rustling in the wind.

- | | |
|-------------|-------------|
| (1) A and B | (2) B and C |
| (3) C and D | (4) B and D |

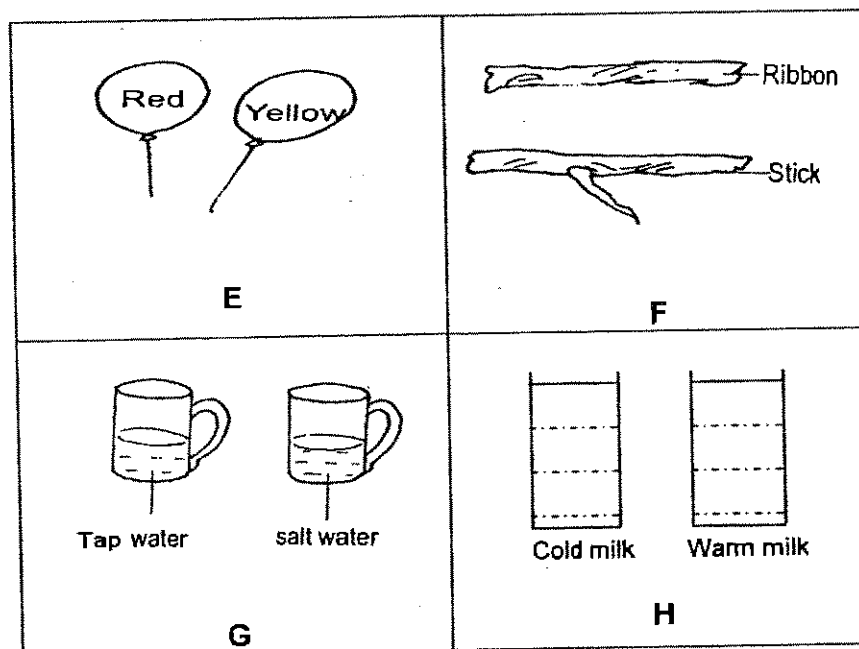
17. Four jars, each containing five seeds, were shown below. Jars, A, B and C were placed near the window while Jar D was placed in the refrigerator.



Which jars would you compare to confirm that warmth is needed for seeds to germinate?

- (1) A and C only (2) A and D only
(3) B and C only (4) C and D only

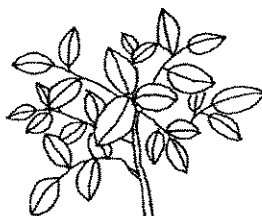
18. Sally was blindfolded with a thick handkerchief and asked to differentiate the following items.



Which of the following would she be able to differentiate?

- (1) E and F only (2) G and H only
(3) F, G and H only (4) E, F, G and H

19. John was observing some plants in his garden when he noticed that most plants had leaves that were spread out as shown in the diagram below.

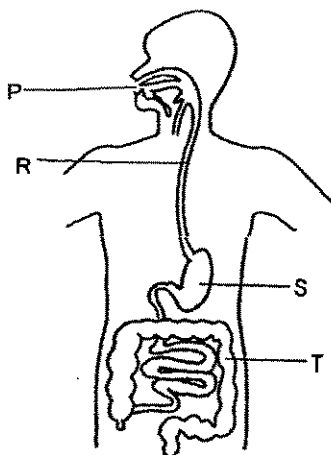


Why were the leaves spread out in this manner?

- E: To trap rainwater when it rains.
 F: To attract insects.
 G: To trap insects for food.
 H: To get more sunlight.

- (1) E and H only (2) F and G only
 (3) E and F only (4) G and H only

20. Mrs Tan grinded some chicken pieces in a mixer until they turned into a liquid form.



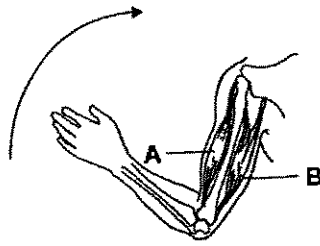
In which part (P, R, S, T) of the digestive system, would a similar change take place if Mrs Tan ate some chicken pieces only?

- (1) P (2) R
 (3) S (4) T

21. Which one of the following correctly shows where digestion begins and where it ends?

	Digestion begins in the..	Digestion ends in the..
(1)	Mouth	Stomach
(2)	Stomach	Large intestine
(3)	Mouth	Small intestine
(4)	Stomach	Small intestine

22. The diagram below shows a human arm.



Which one of the following describes the action of muscles **A** and **B** when the arm is bent?

	Muscle A	Muscle B
(1)	Contracts	Contracts
(2)	Contracts	Relaxes
(3)	Relaxes	Contracts
(4)	Relaxes	Relaxes

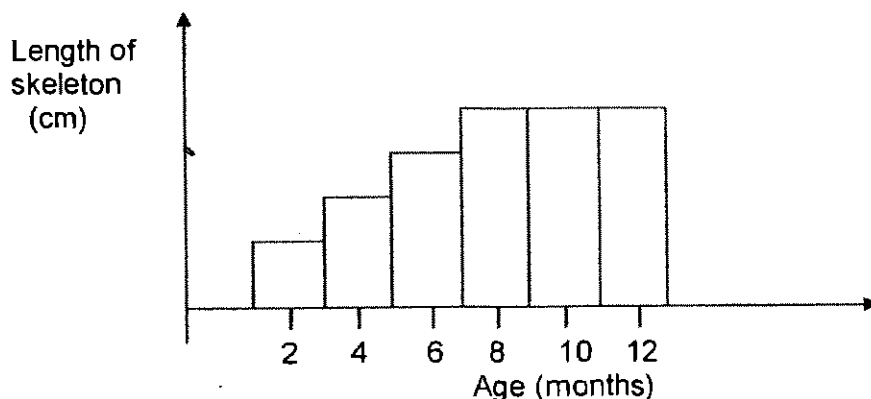
23. Which of the following actions does not make use of the skeletal system to perform the action?

<p>A)</p> <p>Climbing up the stairs</p>	<p>B)</p> <p>Writing</p>
<p>C)</p> <p>Playing golf</p>	<p>D)</p> <p>Smelling some flowers</p>

- (1) A
(3) C

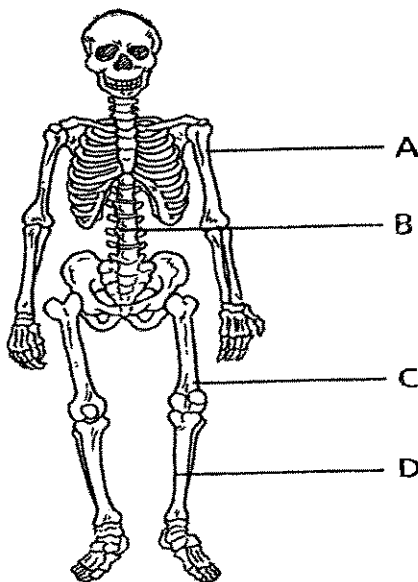
- (2) B
(4) D

24. The graph below shows the length of the skeleton of a fish at different ages.



What pattern do you observe about the length of the skeleton of the fish and its age?

- (1) The length of the skeleton increases as the fish grows older.
 - (2) The length of the skeleton remains the same as the fish grows older.
 - (3) The length of the skeleton increases and then decreases as the fish grows older.
 - (4) The length of the skeleton increases at first and then remains the same as the fish grows older.
25. Look at the diagram of the human skeletal system below.



Which one of the following sets represents the parts correctly?

	A	B	C	D
(1)	Arm bone	Backbone	Leg bone	Toe bone
(2)	Ribcage	Arm bone	Hip bone	Thigh bone
(3)	Arm bone	Backbone	Thigh bone	Shin bone
(4)	Thigh bone	Ribcage	Shin bone	Shoulder bone

26. The following materials have been grouped according to their magnetic properties by Steven. Study the table below carefully.

MAGNETIC	NON-MAGNETIC
Copper	Rubber
Iron	Steel
Nickel	Gold

Steven's teacher pointed out that 2 of them were wrongly grouped. Which materials are wrongly grouped?

- (1) Nickel and Iron (2) Steel and Copper
(3) Gold and Nickel (4) Copper and Rubber
27. Sam brought a magnet close to a metal bar. The metal bar was attracted to the magnet. Sam then made the following statements:

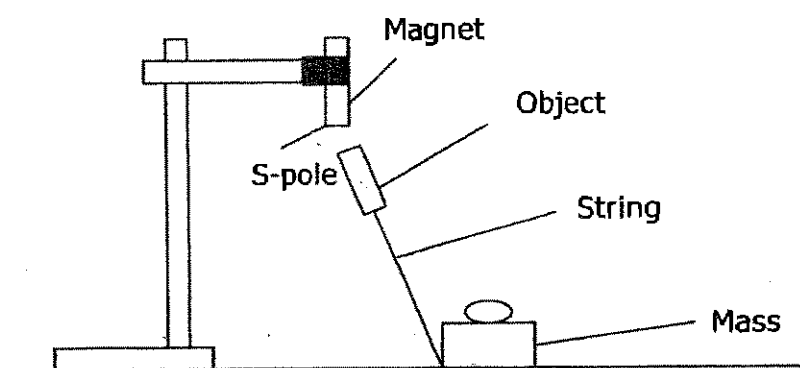
Statement J: The metal bar is made of magnetic material.

Statement K: The metal bar is made from copper or gold.

Statement L: The metal bar could be a magnet.

Which of the above statement(s) is/are correct?

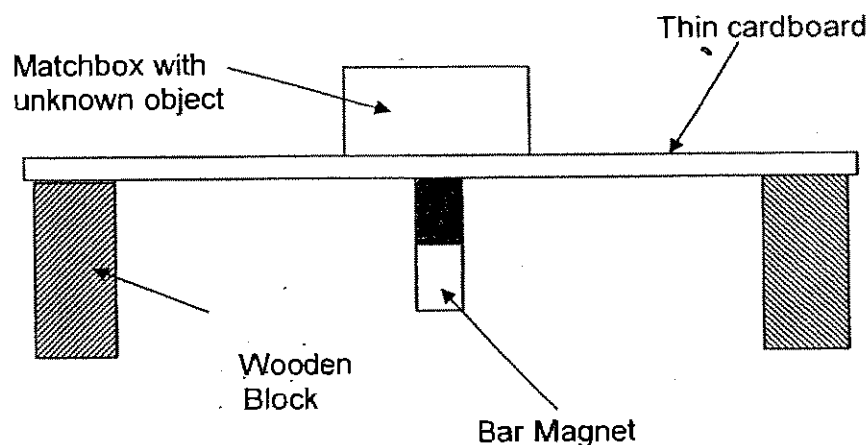
- (1) J only (2) L only
(3) J and L only (4) J and K only
28. Sandra set up an experiment using an object as shown in the diagram below.



Which one of the following cannot be the material the object is made of?

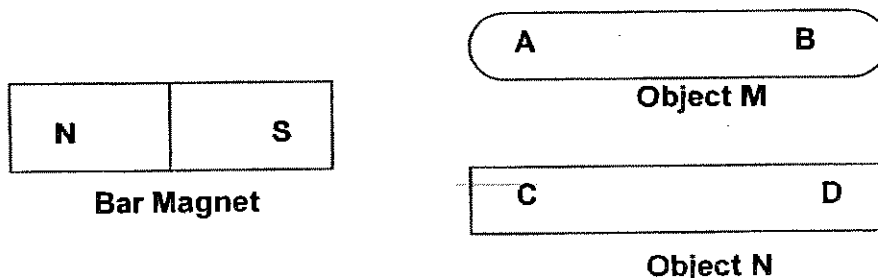
- (1) Silver (2) Steel
(3) Cobalt (4) Iron

29. A matchbox containing an unknown object was placed on a thin sheet of cardboard as shown below.



When the bar magnet moved, the matchbox moved along with it. Which one of the following was most likely to be the unknown object?

- (1) Copper coin (2) Gold ring
(3) Aluminium rod (4) Steel ball bearing
30. Mrs Lim carried out an experiment with a bar magnet and two objects, M and N as shown below.



She observed what happened when the South Pole of the magnet was brought close to side A of object M and then to side B. She repeated the experiment with object N and recorded her observations. Which one of the following would tell her that object M is a magnet while object N is not?

	A	B	C	D
(1)	Attract	Repel	Attract	Repel
(2)	Attract	Attract	Repel	Attract
(3)	Repel	Attract	Attract	Attract
(4)	Repel	Repel	Attract	Attract

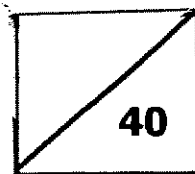
End of Booklet A



Rosyth School
Second Semestral Assessment for 2007
SCIENCE
Primary 3

Name: _____

Total
Marks:



Class: Pr _____

Register No. _____

Duration: 1 h 30min

Date: 1 November 2007

Parent's Signature: _____

Booklet B

Instructions to Pupils:

1. For questions 31 to 46, give your answers in the spaces given in this Booklet B.

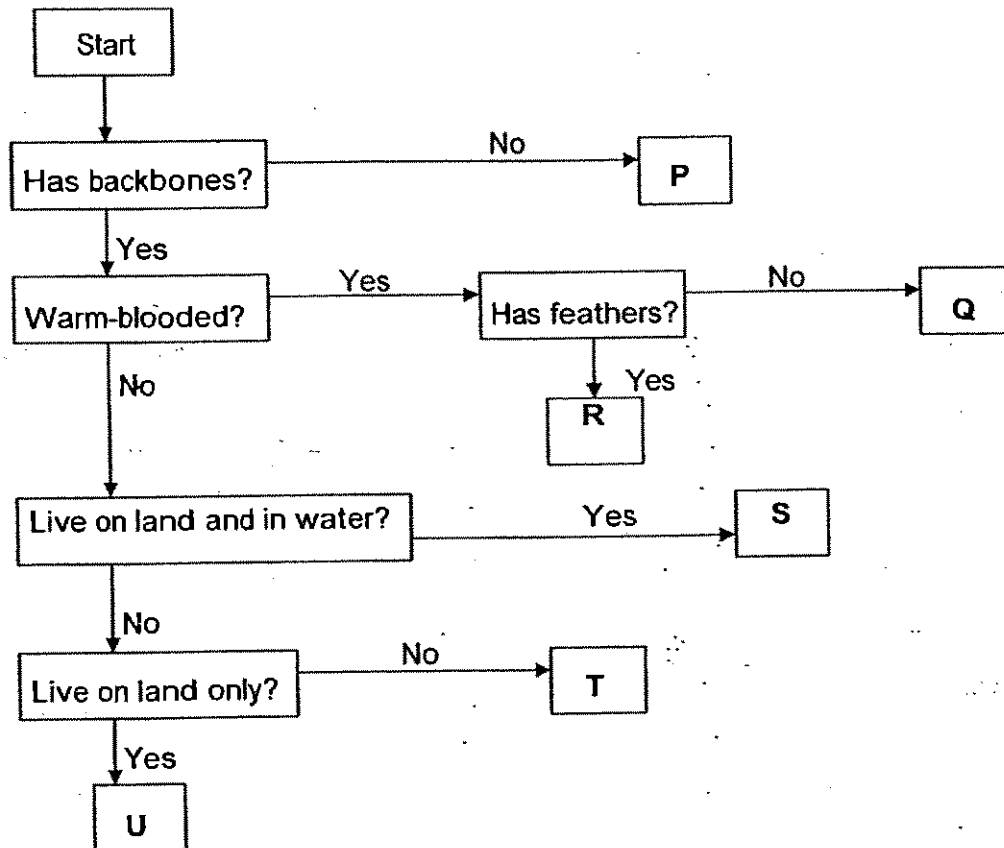
* This booklet consists of 14 pages. (Pg. 13 to 26)

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Part II (40 MARKS)

For questions 31 to 46, write your answers in this booklet.

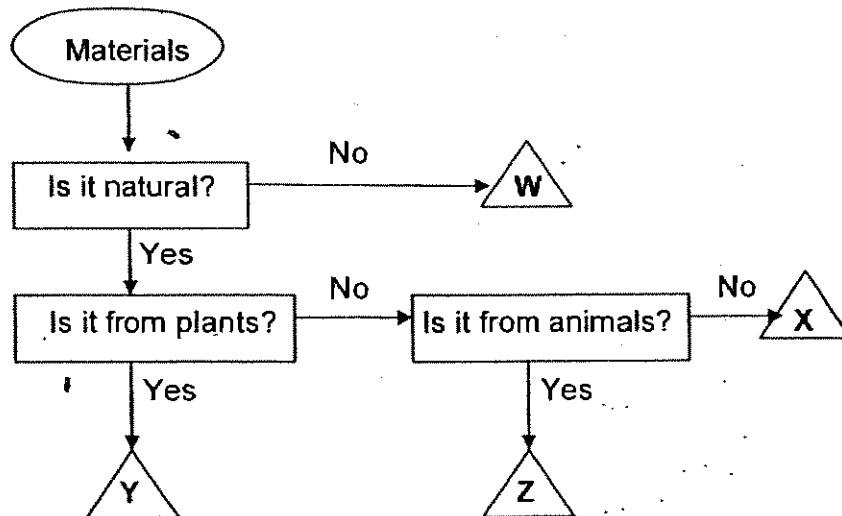
31. Study the flowchart below. The letters P, Q, R, S, T and U represent six different animals.



Identify the letter that best represents each of the following animals: (3m)

- (a) Owl : _____
- (b) Frog : _____
- (c) Grasshopper : _____
- (d) Lizard : _____
- (e) Guppy : _____
- (f) Whale : _____

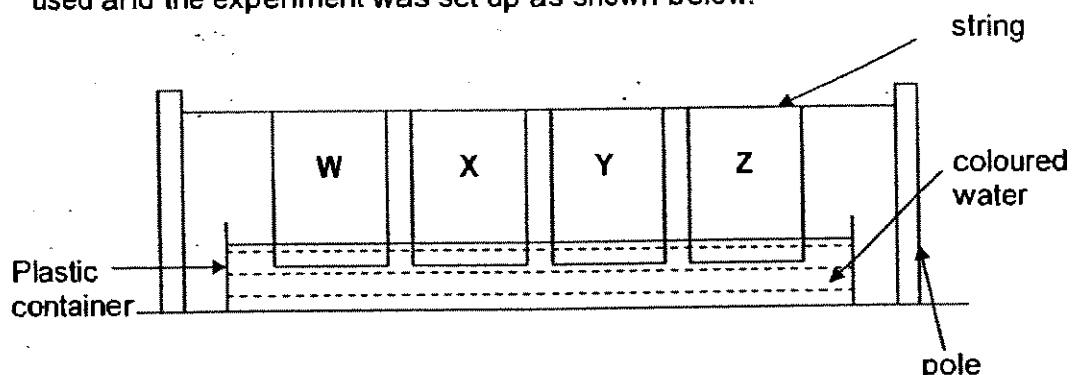
32. Study the flowchart below carefully.



(a) State a similarity between Y and Z. (1m)

(b) In which group (W, X, Y or Z) would you place iron? Explain why. (1m)

33. John wanted to find out which material makes a good hand towel that dries wet hands well. Four different materials of the same size and shape were used and the experiment was set up as shown below.



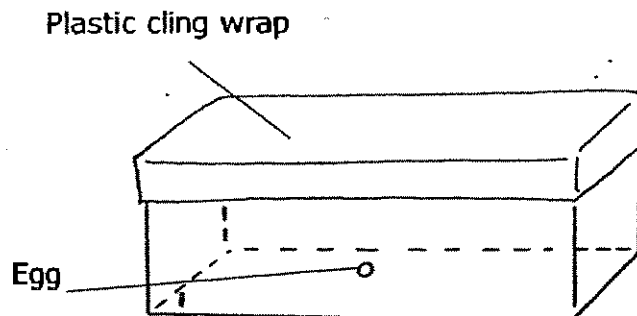
He measured the height in which the water rose in 3 minutes. The results are shown in the table below.

Material	Height in which the water rose (cm)
W	15
X	5
Y	1
Z	3

- (a) Which material (W, X, Y or Z) would be the best material to make a hand towel? (1m)

- (b) Explain why you have chosen the material you have identified in (a). (1m)

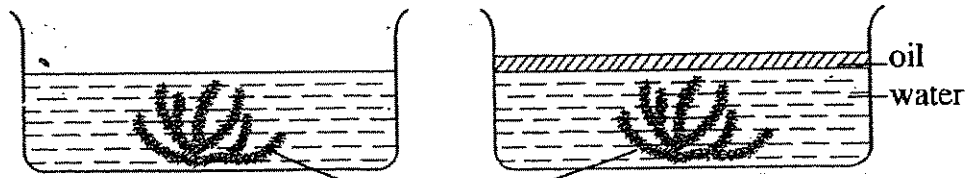
34. Su Ning wanted to grow a butterfly on her own to study its growth. She got a butterfly egg and placed the egg in a box as shown below.



- (a) What two things should she do to the set-up so that she can ensure the butterfly will survive in box she has made? (2m)

- (b) If Su Ning did not do the two things mentioned in (a), at what stage would the butterfly reach before it is unable to survive any longer? Name the stage. (1m)

35. Jeya placed an equal number of water plants in containers D and E. In container E, he poured in some oil. He then placed both containers at his balcony.



Water Plants

Container D

Container E

- (a) What would happen to the water plants in both containers D and E after a week? (1m)

- (b) Explain your answer in (a). (1m)

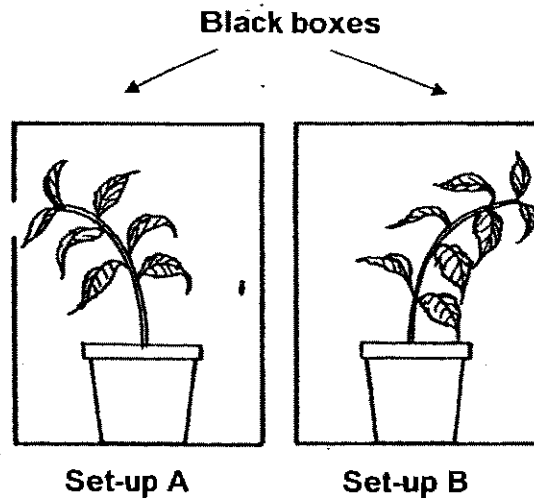
36. The table below shows the plant parts that are being removed from three balsam plants K, L and M.

Plant	Part that is removed
K	Fruits
L	Flowers
M	Leaves

- (a) Which plant will die first? (1m)

- (b) Explain your answer in (a). (1m)

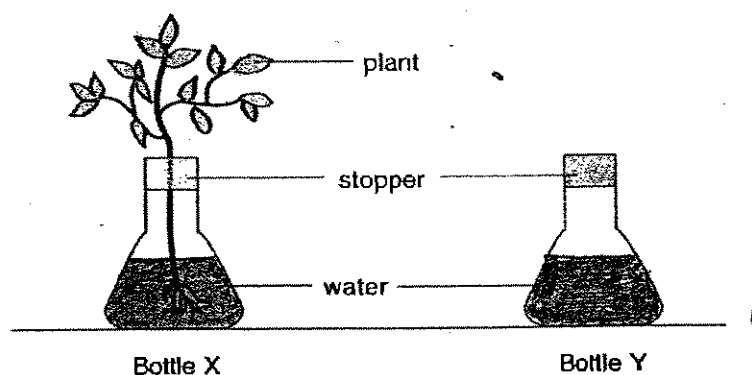
37. Jimmy conducted an experiment with two potted plants. He placed one pot of plant each in a sealed black box with an opening on one side of the box. He watered the plants daily. The diagram shows what happened to the plants after a week.



- (a) Jimmy concluded that the plants grew this way as there was no room for it to grow upwards. Is his conclusion correct? Explain your answer. (2m)

- (b) Explain why was it important for Jimmy to use black boxes in his experiment. (1m)

38. Raymond carried out an experiment with the set-up as shown below.



He then left the set-up for two days and recorded some information from his experiment. He put them in a table as shown below.

DATE	BOTTLE X	BOTTLE Y
16 Nov 06	200ml	200ml
18 Nov 06	180 ml	200ml

- (a) What was the reason for the change in the volume of water in Bottle X? (1m)

- (b) (i) Raymond then decided to reduce the change in the volume of the water in the bottle X. What two changes could he do to the plant used without replacing it completely? (2m)

- (ii) Provide a reason as to why one of the changes above would cause a decrease in the loss of water in Bottle X? (1m)

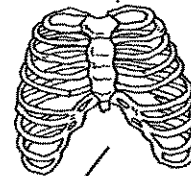
39. Tammy made the following descriptions about some objects. Write down the sense organs which she used to describe them. (3m)

	Description	Sense organs used
(a)	The sweet-smelling rose is pink.	(i) _____ (ii) _____
(b)	The apple pie is warm and sweet.	(i) _____ (ii) _____
(c)	The stone is black and rough.	(i) _____ (ii) _____

40. Draw straight line to link two dots to match the following body systems to their functions. (2m)

(a) Skeletal system	•	•	Takes oxygen into the body and removes carbon dioxide from the body
(b) Circulatory system	•	•	Gives body its shape
(c) Muscular system	•	•	Carries oxygen, food and water round the body
(d) Respiratory system	•	•	Works with another body system to bring about movement

41. The pictures below show a skull and a ribcage. Using the graphic organiser below, state a similarity and a difference between them. (2m)



Similarity

i)

Body system : _____

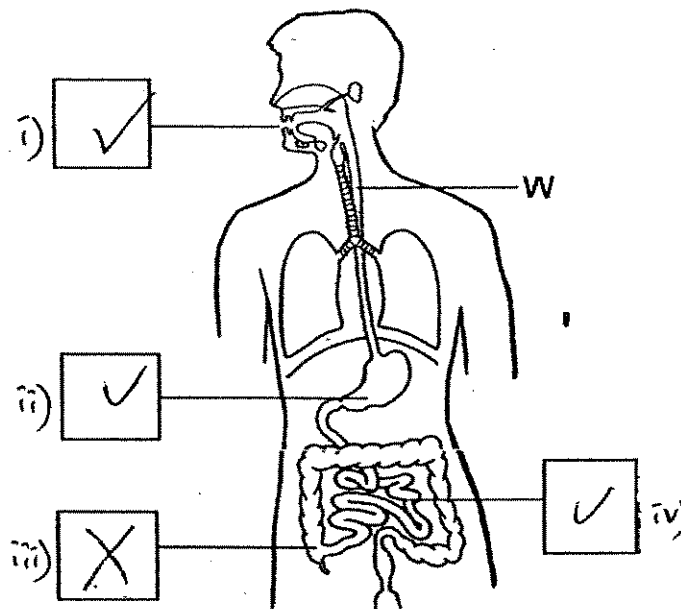
Differences

ii)

Body part(s)
 it protects

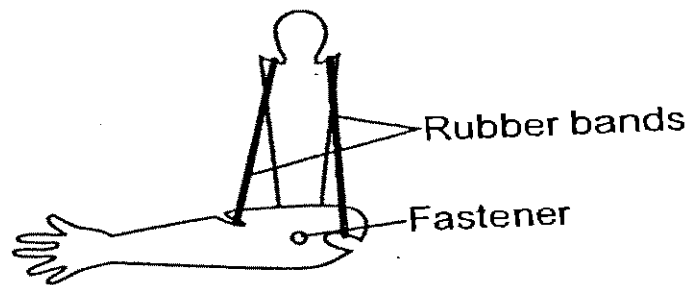
iii)

42. The picture below shows a human digestive system.



- (a) On the box(es) above, put a tick (✓) to indicate where digestion of food takes place. (1m)
- (b) On the box(es) above, put a (✗) to indicate where water is removed. (1m)
- (c) Identify the part that is labelled **W**. (1m)
- _____
- (d) State the function of the part labelled **W**. (1m)
- _____

43. Look at the diagram below carefully.



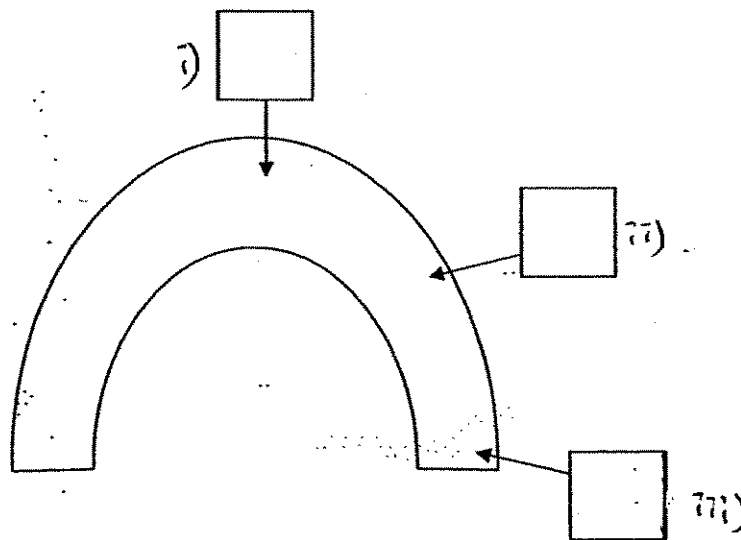
(a) Which part of our body do the rubber bands represent? (1m)

(b) Why is the part represented by the 'fastener' important to us? (1m)

44. Angela placed some pins near a U-shaped magnet. She then recorded the number of pins attached to different parts of the magnet in a table as shown below.

Position	Number of pins attached
K	2
L	6
M	14

- (a) On the diagram of a U-shaped magnet shown below, label the positions K and M, on only 2 of the boxes, based on the data given above. (1m)



- (b) What can you conclude about the pull of the magnet from this experiment? (1m)

45. Helen mixed up some sugar and iron staples together into a mixture as shown in the diagram below.



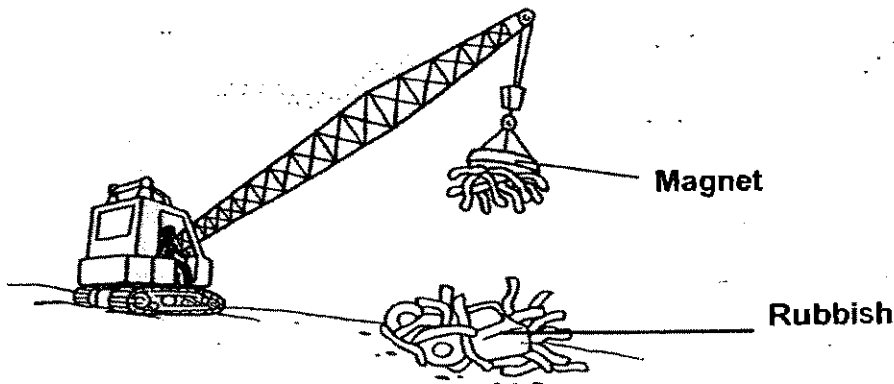
Mixture of iron staples and sugar

- (a) How can Helen separate the iron staples from the sugar without using water?

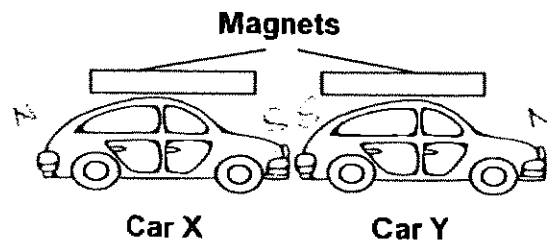
(1m)

- (b) Using the same idea in (a), explain how the crane below helps to sort out rubbish.

(1m)

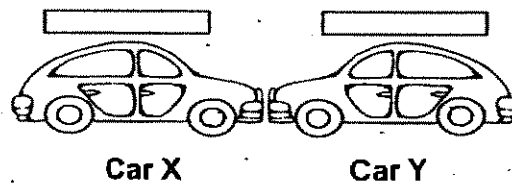


46. Magnets were attached to two toy cars as shown below.

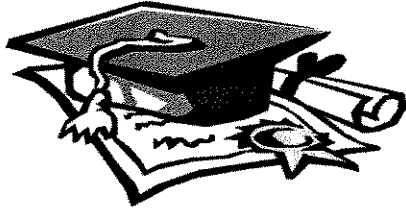


- (a) When Car X was brought close to Car Y, Car Y moved away from Car X. Explain why this happened. (1m)

- (b) What would happen if we turned the two cars such that Car X and Car Y were facing each other as shown below? (1m)



End of Paper



ANSWER SHEET

ROSYTH PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 1
 2. 3
 3. 4
 4. 3
 5. 2
 6. 2
 7. 3
 8. 2
 9. 3
 10. 4
 11. 4
 12. 1
 13. 4
 14. 2
 15. 4
 16. 3
 17. 4
 18. 3
 19. 1
 20. 3
 21. 3
 22. 2
 23. 4
 24. 4
 25. 3
 26. 2
 27. 3
 28. 1
 29. 4
 30. 3
- 31) a) R b) S c) P d) U e) T f) Q
- 32) a) Y and Z are natural materials.
b) I would place iron in X. It is natural but does not come from plants or animals.
- 33) a) Material W.
b) It absorbs the most water in the experiment.
- 34) a) The first thing: Put some green leaves in the box for the caterpillar to eat.
The second thing: Make air holes in the cling wrap to let some air in for the caterpillar and butterfly to breathe.
b) The larva stage = Caterpillar.
- 35) a) The water plant in container D will survive while the water plant in container E will die.
b) The water plant in container D can get air in the water while the water plant in container E cannot get air in the water because the oil is blocking it.
- 36) a) Plant M will die first.
b) Without leaves, plant M will not be able to make food for photosynthesis.

37)a)His conclusion is wrong. The plants grow towards the hole to get sunlight to make food.

b)It is important to use black boxes in his experiment because the light could not enter the boxes and the experiment would be accurate.

38)a)Roots absorbed the water.

b)i)He could cut off some roots.

He could also pluck off some leaves.

ii)The plant absorbs less water than before.

39)a)i)Nose ii)Eyes

b)i)Skin ii)Tongue

c)i)Eyes ii)Skin

40)a)

b)

c)

d)

41)A: Skeletal System

B: Brain

C: Heart and Lungs

42)a)b) i) ✓ iii)x

c)Gullet

d)The chewed food travels down the gullet to the stomach.

43)a)They represents our muscles.

b)It enables us to move our arm.

44)a)i)K iii)M

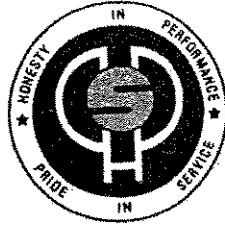
b)Magnets are strongest at the poles.

45)a)She can use a magnet to attract the iron staples.

b)It separates magnetic material from non-magnetic materials.

46)a) The like poles were facing each other and hence, they repelled.

b) They will attract each other as unlike-poles are facing each other.



HENRY PARK PRIMARY SCHOOL

SEMESTRAL EXAMINATION II

2007

SCIENCE

PRIMARY 3

BOOKLET A

Name: Lim Jia Hui (Jia Hui)

Class: Primary 3

**30 Questions
60 Marks**

Total Time for Booklets A and B: 1 h 30 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

PART 1 (60 marks)

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1 Ben's mum has just given birth. Which characteristic of a living thing does this show?

- (1) Living things need to reproduce.
- (2) Living things move by themselves.
- (3) Living things need air, water and food.
- (4) Living things die quickly without water or air.

2 Study the table below.

Group A	Group B	Group C
giraffe	ostrich	lobster
monkey	flamingo	hermit crab
cat	eagle	oyster

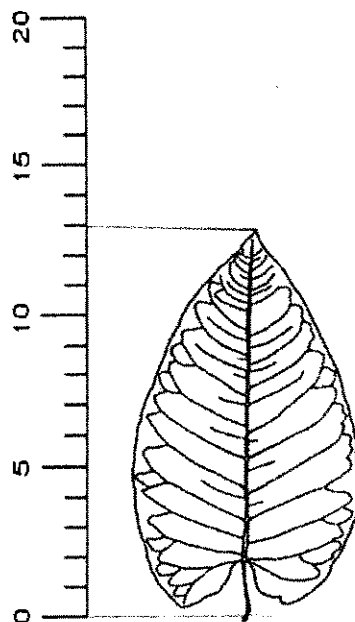
The above animals are grouped according to _____.

- (1) what they eat
- (2) where they live
- (3) how they reproduce
- (4) their outer coverings

3 Which of the statements below is **FALSE**?

- (1) All insects eat only plants.
- (2) All insects have three pairs of legs.
- (3) All insects reproduce by laying eggs.
- (4) All insects have feelers on their heads.

- 4 The diagram below, not drawn to scale, shows a leaf measured against a ruler.

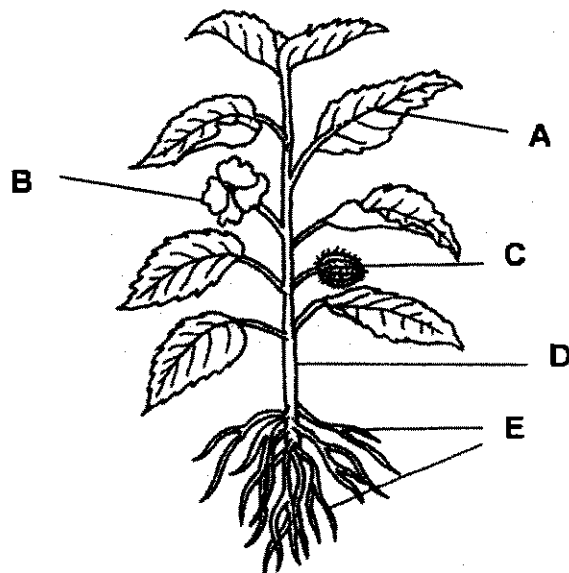


What is the length of the leaf?

- (1) 12cm
- (2) 13cm
- (3) 14cm
- (4) 15cm

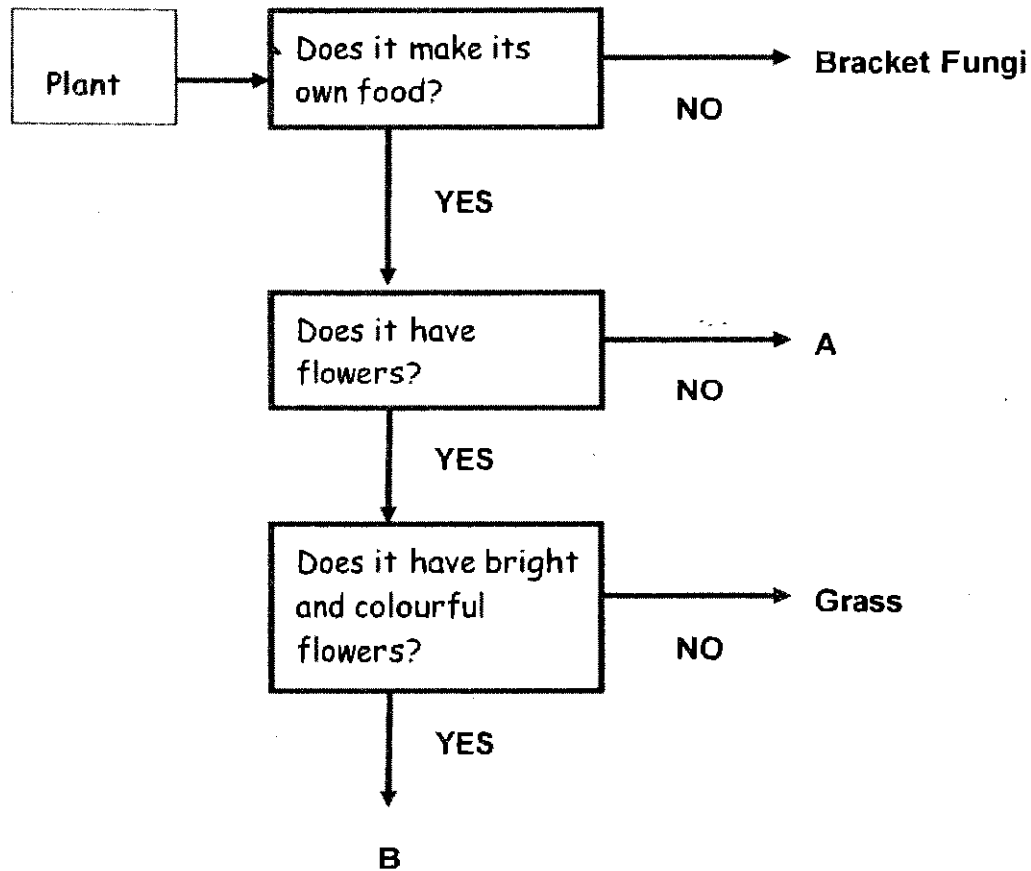
(2)

- 5 Identify the parts of the plant below. Which of the following represents the parts correctly?



	Root	Stem	Leaf	Flower	Fruit
(1)	E	D	B	C	A
(2)	A	B	C	E	D
(3)	E	D	A	B	C
(4)	D	E	A	B	C

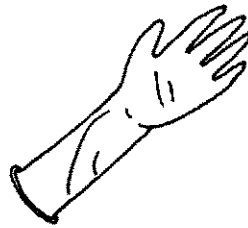
- 6 The flow chart below shows the characteristics of some plants. Study it carefully and answer the question that follows.



Which features best describe Plant A and Plant B?

	Plant A	Plant B
(1)	It will not bear fruits	It will bear fruits
(2)	It is not a green plant	It is a green plant
(3)	It is a flowering plant	It is a non-flowering plant
(4)	It reproduces by seeds	It reproduces by spores

- 7 The object below is made from rubber. What other possible materials can be used to make the object?



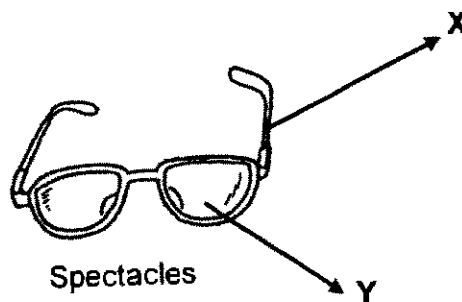
glove

- A: Glass
B: Plastic
C: Cloth
D: Metal

- (1) A and C only
(2) B and C only
(3) B and D only
(4) A, B and C only

()

- 8 The picture below shows a pair of spectacles.



What are X and Y likely to be?

	X	Y
(1)	Glass	Metal
(2)	Metal	Glass
(3)	Wood	Plastic
(4)	Cotton	Rubber

()

- 9 The table below describes the stages of the life cycles of four animals. Study it and answer the following question.

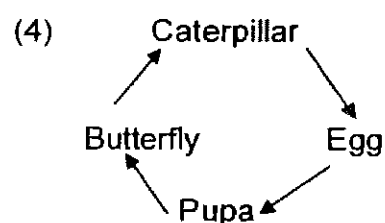
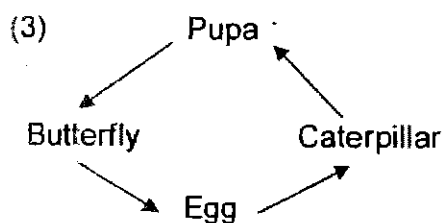
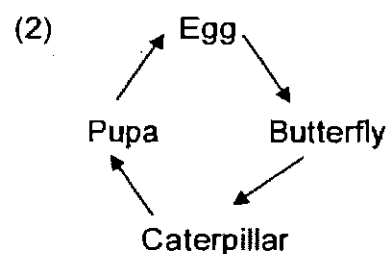
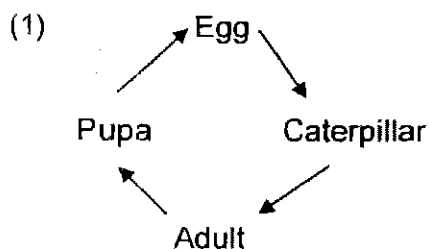
Description	Animal W	Animal X	Animal Y	Animal Z
Young resembles the adult	✓	X	✓	X
Has three stages in its life cycle	✓	X	X	✓
The young goes through a process called moulting	X	✓	X	✓

Which of the following is likely to be a beetle?

- (1) Animal W
- (2) Animal X
- (3) Animal Y
- (4) Animal Z

()

- 10 Which diagram below shows the life cycle of a butterfly?



- (1) 1
- (2) 2
- (3) 3
- (4) 4

()

11 Which statement below best describes the similarities between the caterpillar and the cockroach nymph?

- (1) Both eat only leaves
- (2) Both come from an egg.
- (3) Both are protected by a hard covering.
- (4) Both will change into a pupa before they become adults. ()

12 Which of the young below look like their parents?

(1)



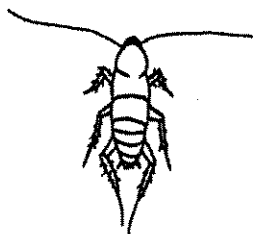
Tadpole

(2)



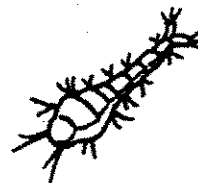
Mealworm

(3)



Cockroach nymph

(4)



Wiggler

()

- 13 Sarah conducted an experiment to find out whether the amount of water will affect the growth of seeds. She placed a few seeds in each of the four containers.

The table below shows the amount of water that Sarah used to water the plants **each day**. It also shows which containers receive air and sunlight.

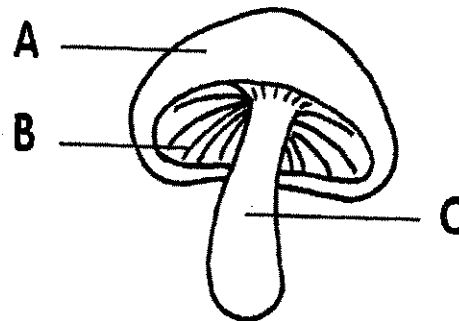
Container	Amount of water (ml)	Air	Sunlight
A	5 ml	√	√
B	10 ml	√	√
C	5 ml	√	X
D	15 ml	X	√

Which containers should she use if she wants to find out whether the amount of water will affect the growth of seeds?

- (1) Containers A and B
- (2) Containers A and C
- (3) Containers B and C
- (4) Containers B and D

()

The diagram below shows a living thing. Study it and answer questions 14 and 15.



14 Which part(s) of the living thing above is/are responsible for its reproduction?

- (1) A only
- (2) B only
- (3) B and C only
- (4) A and B only

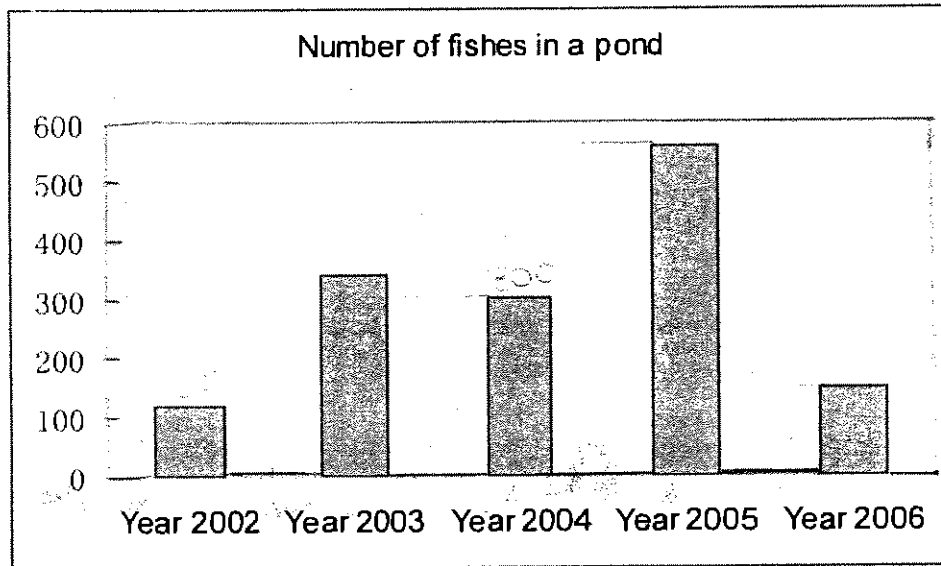
()

15 What can be found in the part(s) that is/are responsible for its reproduction?

- (1) Seeds
- (2) Spores
- (3) Fruits
- (4) Roots

()

- 16 The chart below shows the number of fishes found in a pond over 4 years.



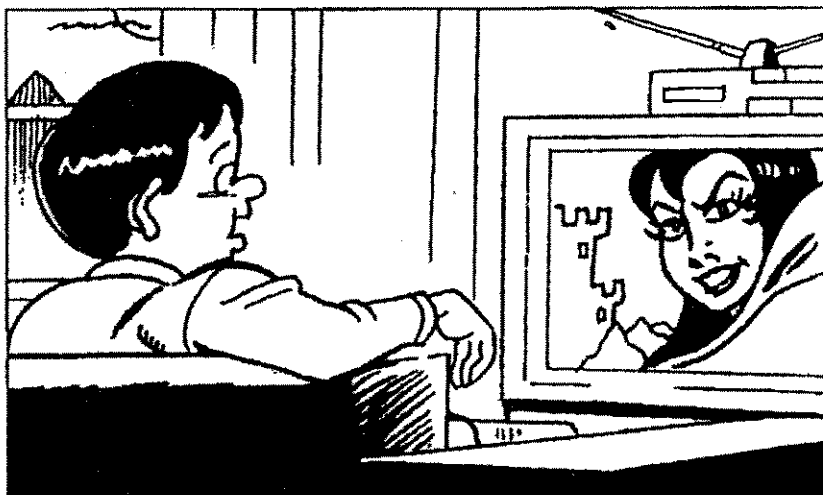
A deadly virus once spread through the pond and killed many fishes. Which of the following best shows the period it happened?

- (1) Between Year 2002 and 2003
- (2) Between Year 2003 and 2004
- (3) Between Year 2004 and 2005
- (4) Between Year 2005 and 2006

()

- 17 "It's time for my favourite television programme!" Peter exclaimed as he sat in front of the television.

What are the **sense organs** that he is using below?



- A: Ears
B: Eyes
C: Nose

- (1) B only
(2) C only
(3) A and B only
(4) A and C only

()

- 18 Four children were asked to observe some objects.
Below are the observations they made.

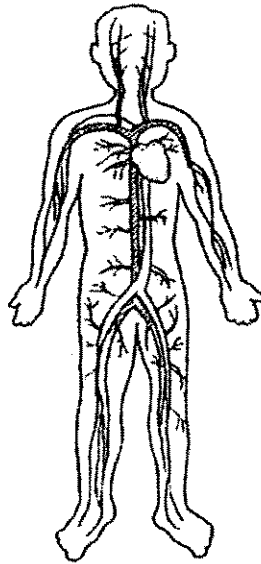
Child	Observation
John	The red apple is sweet and juicy.
Xiaoting	The rubber ball is bouncy.
Siti	The silver bell made a loud noise.
Gautam	The muffin is delicious and smells good.

Which of the following correctly shows the senses that the child has used?

	Child	Sight	Hearing	Smell	Taste	Touch
(1)	John				✓	
(2)	Xiaoting	✓			✓	✓
(3)	Siti	✓	✓			
(4)	Gautam	✓		✓		

()

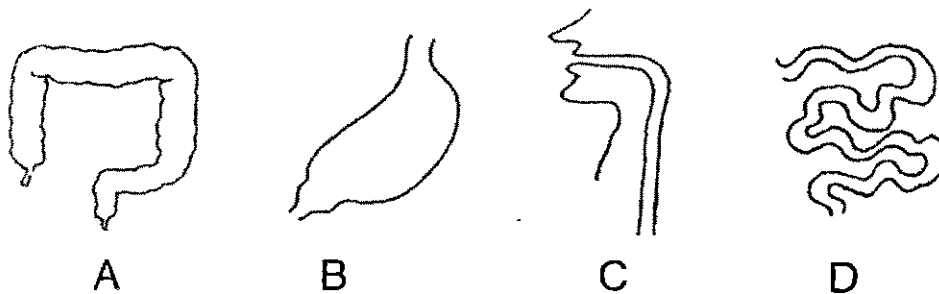
- 19 The human system shown below is our _____ system.



- (1) skeletal
- (2) muscular
- (3) circulatory
- (4) respiratory

()

- 20 The following diagram shows the different organs of a human digestive system.



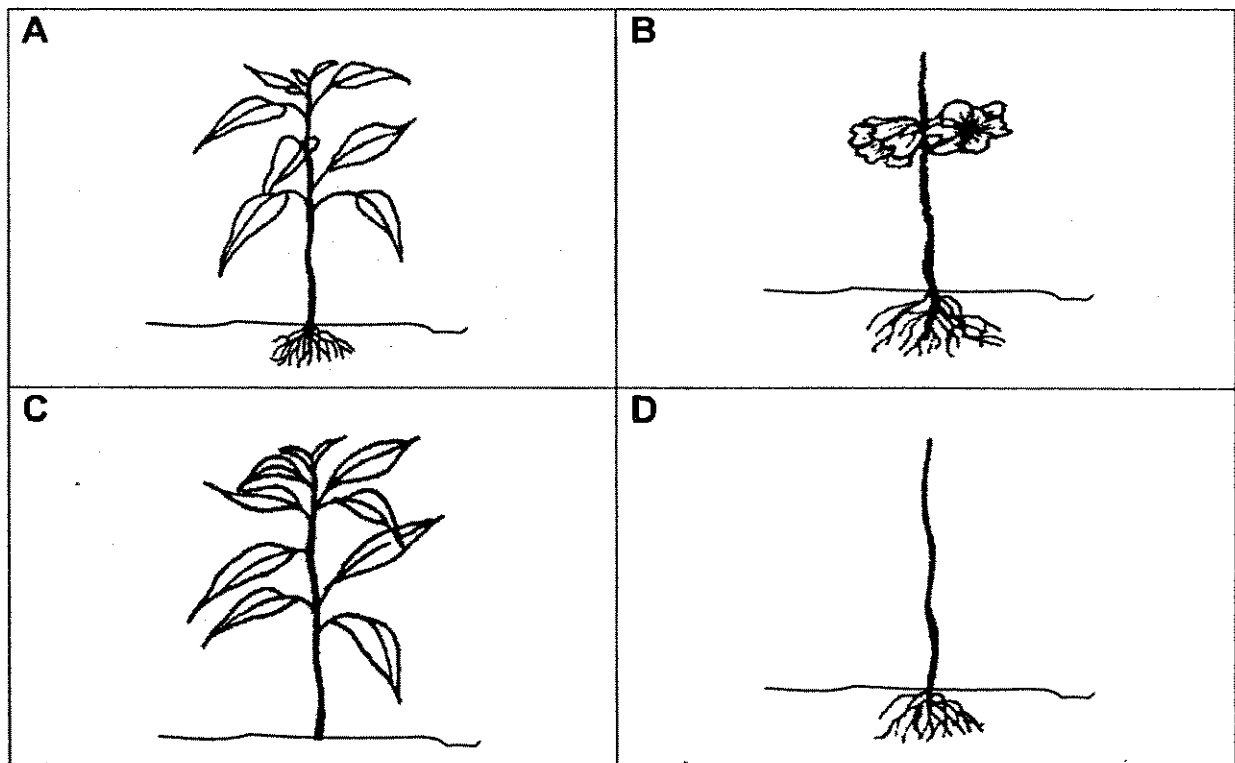
Which of the following shows the correct path our food takes during digestion?

- (1) C → B → D → A
- (2) C → D → B → A
- (3) C → B → A → D
- (4) C → A → B → D

()

21 The following plants are placed in the sunlight and given water every day.

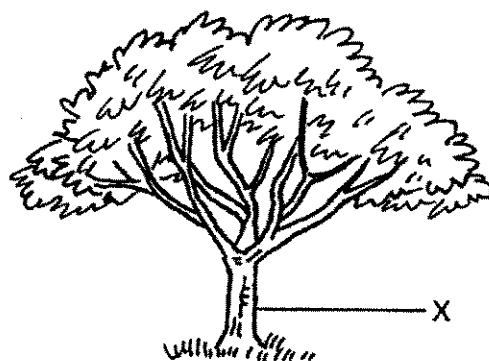
Which plant(s) **will not** be able to survive past one week?



- (1) A only
 (2) B and D only
 (3) A, C and D only
 (4) B, C and D only

()

22 Study the plant below.

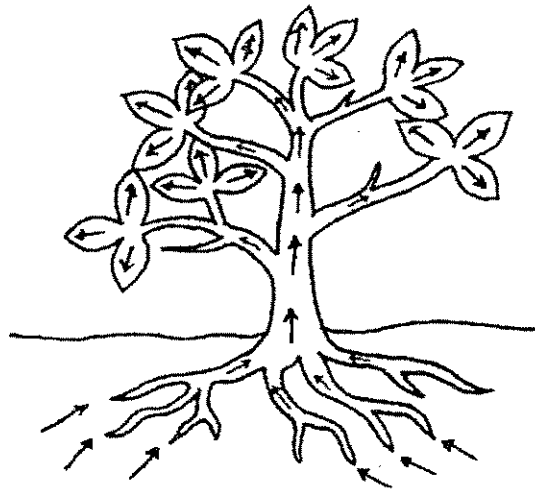


Which of the following is **NOT** a function of the part labelled X?

- (1) It holds the plant upright.
 (2) It transports food to the roots.
 (3) It helps the plant absorb water.
 (4) It transports water to the leaves.

()

- 23 Look at the diagram of the plant below carefully.



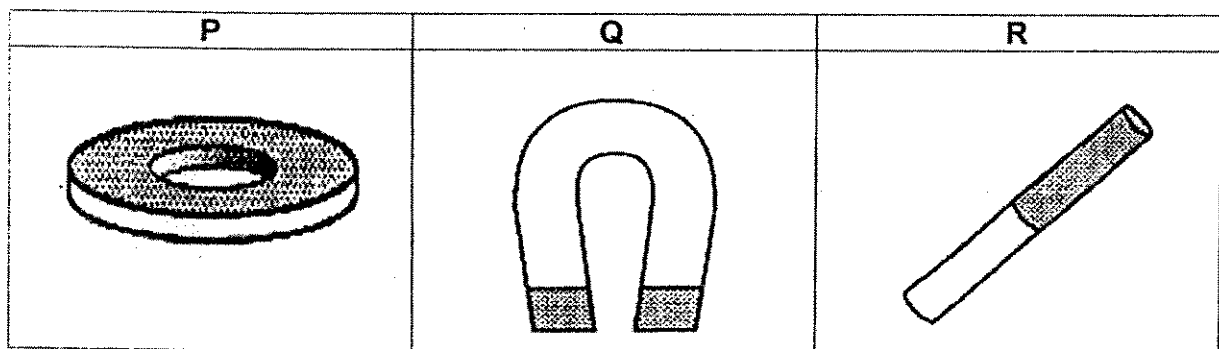
The arrows show the path taken by _____.

- A: air
B: sugar
C: water
D: mineral salts

- (1) A and B only
(2) A and C only.
(3) B and D only.
(4) C and D only.

()

- 24 Study the magnets below.



What of the following is correct?

- | | P | Q | R |
|-----|---------------|------------------|------------|
| (1) | Ring magnet | U-shaped magnet | Rod magnet |
| (2) | Button magnet | U-shaped magnet | Bar magnet |
| (3) | Ring magnet | Horseshoe magnet | Rod magnet |
| (4) | Button magnet | Horseshoe magnet | Bar magnet |
- ()

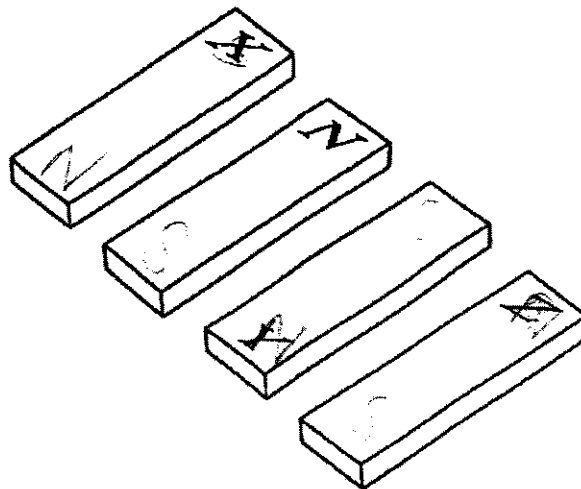
- 25 Nancy carried out an experiment on 3 objects with a magnet to find out how the objects would respond. Below are her results. (✓ - Yes X - No)

Object	Attracted to magnet	Repelled by magnet
A	✓	X
B	X	X
C	✓	✓

What could objects A, B and C be?

	A	B	C
(1)	Magnet	Handkerchief	Paper Clip
(2)	Paper Clip	Magnet	Handkerchief
(3)	Paper Clip	Handkerchief	Magnet
(4)	Handkerchief	Paper Clip	Magnet

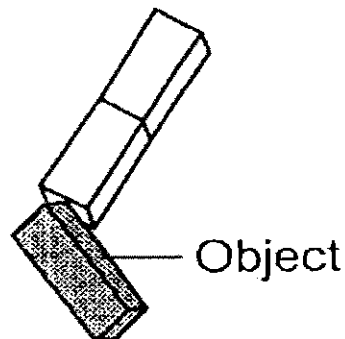
- 26 When four bar magnets were brought near to each other as shown below, they **attracted** each other.



If N is the North pole, what are the unknown poles, X, Y and Z?

	Pole X	Pole Y	Pole Z
(1)	South Pole	South Pole	North Pole
(2)	North Pole	North Pole	North Pole
(3)	North Pole	South Pole	North Pole
(4)	South Pole	North Pole	North Pole

- 27 The diagram shows what was observed when a magnet was brought close to an object.

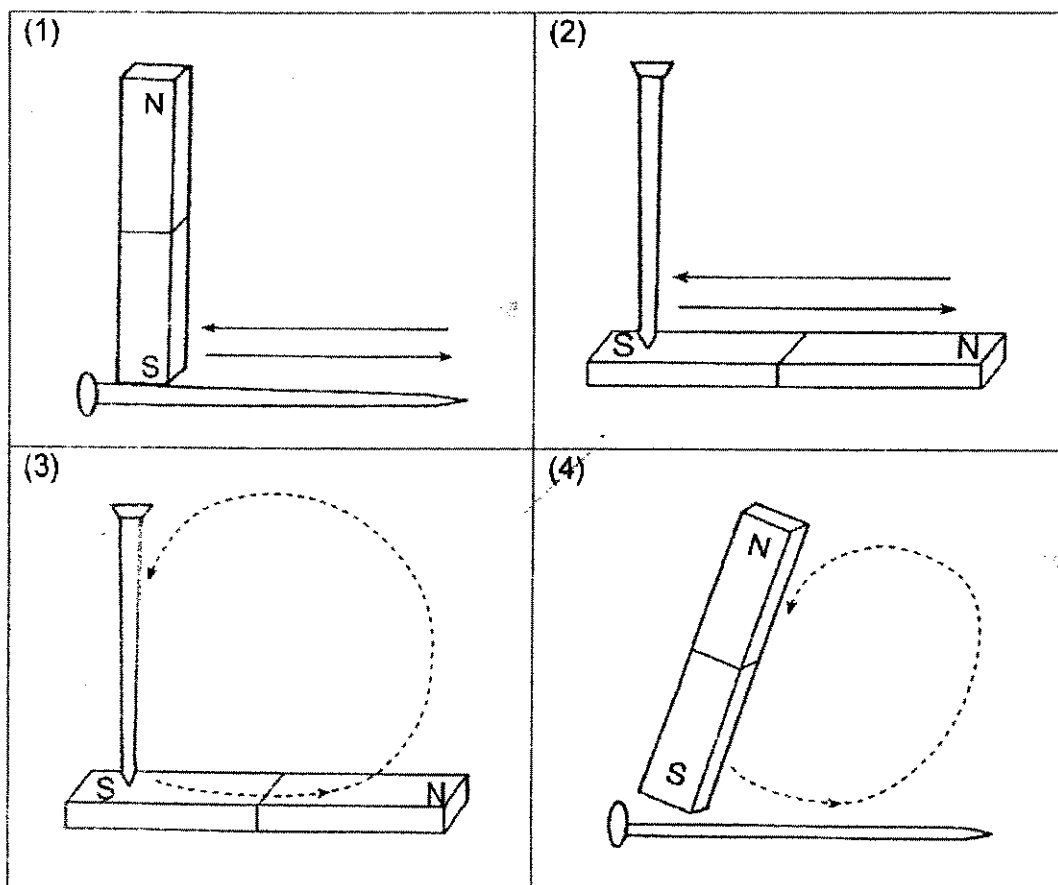


What could the object be made of?

- (1) Gold
- (2) Steel
- (3) Copper
- (4) Aluminium

()

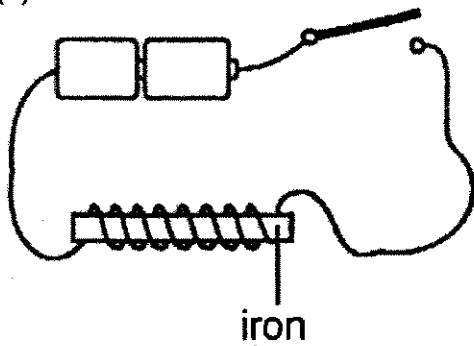
- 28 Which of the following is the **correct** method of making a magnet out of an iron nail by stroking?



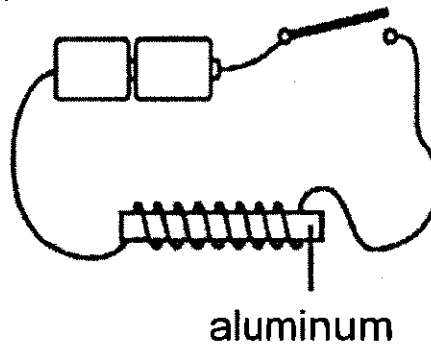
()

- 29 Which of the following metal bars will become an electromagnet when the switch is turned on?

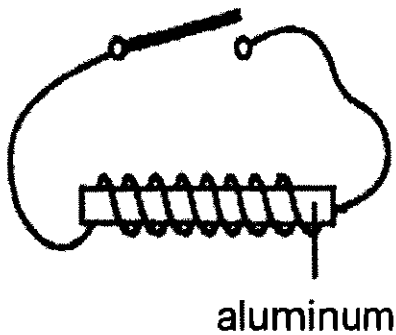
(1)



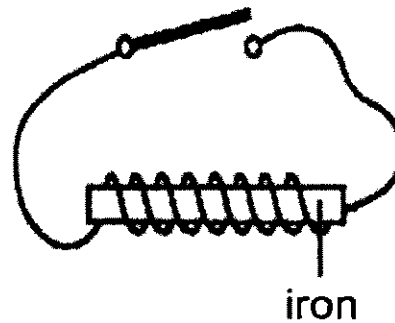
(2)



(3)



(4)



()

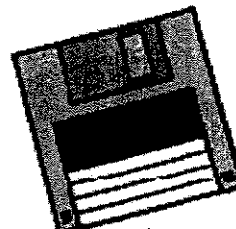
- 30 Which of the following **DOES NOT** make use of magnets to work?

(1)



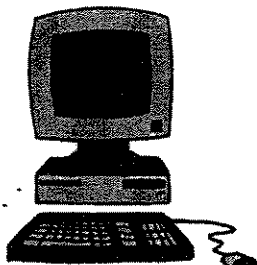
Desk Lamp

(2)



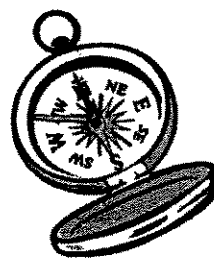
Diskette

(3)



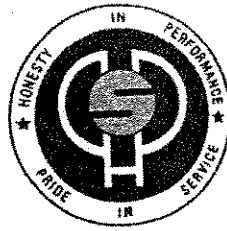
Computer

(4)



Compass

()



HENRY PARK PRIMARY SCHOOL

SEMESTRAL EXAMINATION II

2007

SCIENCE

PRIMARY 3

BOOKLET B

Name: _____ ()

Class: Primary 3 2007

**16 Questions
40 Marks**

Total Time for Booklets A and B: 1 h 30 min

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

READ AND FOLLOW INSTRUCTIONS CAREFULLY.

PART 2 (40 marks)

Write your answers to questions 31 to 46 in the spaces given.

- 31 Sally placed 2 things A and B in separate cages with food and water.

She then observed their mass over a period of 4 weeks and recorded her findings below.

	Mass of A	Mass of B
Week 1	3 kg	2 kg
Week 2	5 kg	2 kg
Week 3	7 kg	2 kg
Week 4	9 kg	2 kg

- (a) Which one, A or B, is more likely to be a living thing? (1m)

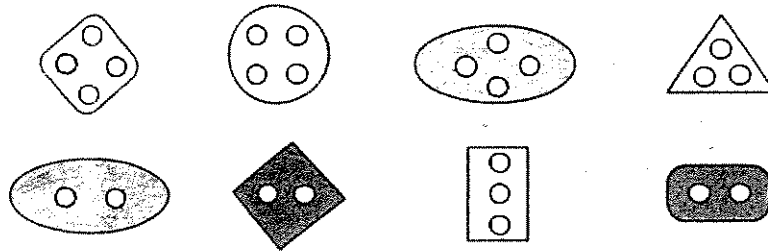
- (b) By week 5, what will be the possible mass of A and B? (1m)

(i) A : _____ kg

(ii) B : _____ kg

- 32 Su Lin, Ramesh and Siti were each given a set of 8 buttons as shown below.

Their Science Teacher, Mrs Leong, asked each pupil to classify them in a different way from the rest.



The tables below show how each pupil classified the 8 buttons.

Siti's classification of the buttons		

Ramesh's classification of the buttons		

Su Lin's classification of the buttons	

- (a) How did Ramesh classify the buttons?

Complete the sentence below. (1m)

He classified the buttons according to _____

- (b) Who (Su Lin or Siti) has classified the buttons according to their colour? (1m)

- (c) Classify the 8 buttons into 3 groups again.
Draw the buttons in the spaces provided.

Your classification **must be different** from the 3 pupils' classification above. (1m)

Your classification of the 8 buttons:

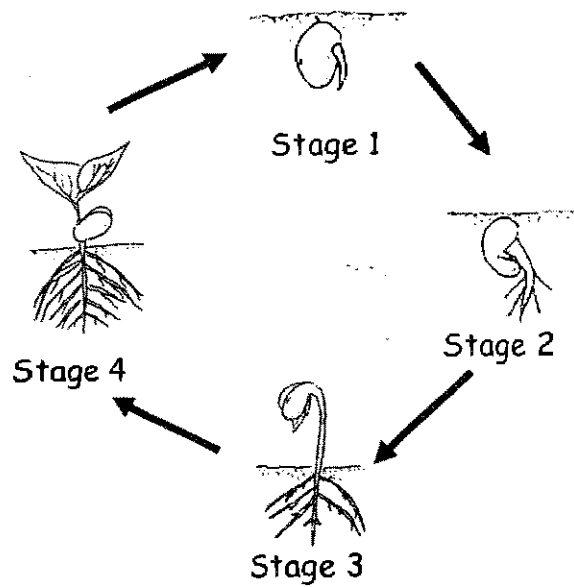
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- (d) Explain how you have classified the buttons in (c). (1m)

I classified them according to _____

- 33 The diagram below shows the life cycle of a plant. Study it and answer the following questions.

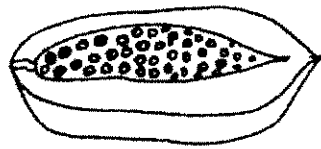
The Life Cycle of a Plant



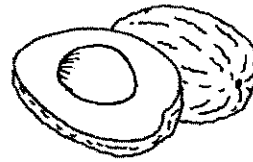
- (a) At which stage will the plant be able to make its own food?(1m)

- (b) Explain your answer in (a). (1m)

34 Look at the pictures below.



Fruit A



Fruit B

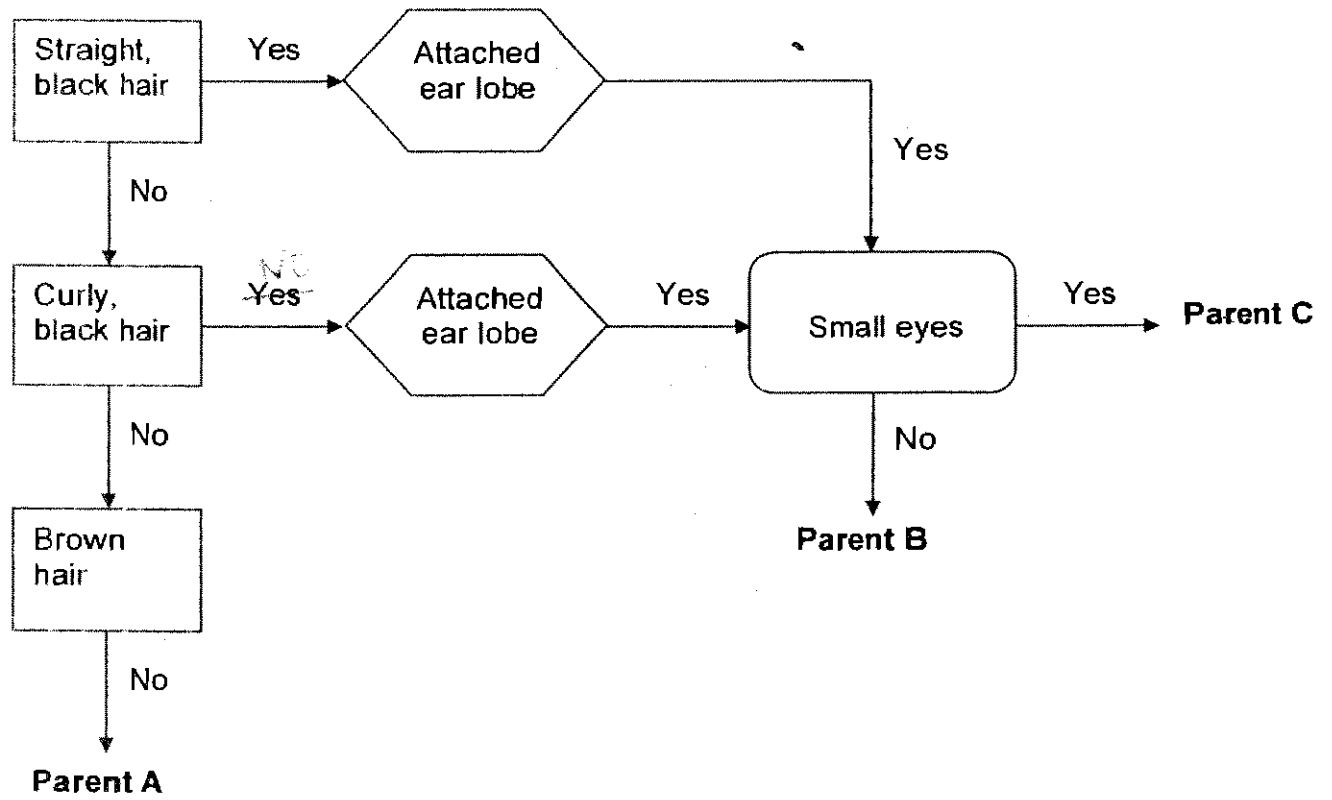
(a) Based only on the pictures, state TWO differences between Fruit A and Fruit B.
(DO NOT compare shape, size and colour) (2m)

(i) _____

(ii) _____

(b) Based only on the pictures, state ONE similarity between Fruit A and Fruit B.
(DO NOT compare shape, size and colour) (1m)

- 35 The flow chart below shows the characteristics of three parents. Study it and answer the following questions.



- (a) State **TWO** characteristics of Parent B. (2m)

(i) _____

(ii) _____

- (b) Khairy has straight black hair, attached ear lobe and a pair of small eyes.

Who is most likely to be Khairy's parent? (1m)

Parent _____

36 Study the table below.

Animal	Number of young /eggs produced each time
P	2
Q	80
R	120

(a) Which animal above is likely to take care of its young? (1m)

(b) Is Animal R more likely to give birth to its young or lay eggs? (1m)

(c) Circle the group that Animal R is **most likely** to belong to. (1m)

Mammals

Birds

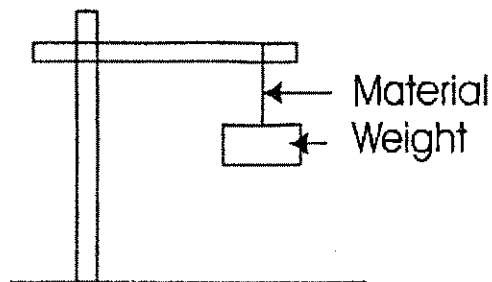
Insects

- 37 Sam conducted an experiment as shown below. He wanted to find out which material is able to carry the most weight.

He used 3 strings, X, Y and Z, made of different materials.

He kept adding weight until the material broke.

The table below shows the results.



Weight	Material X	Material Y	Material Z
10 g	X	√	√
30 g	X	√	√
50 g	X	X	√

X – Material broke

√ - Material did not break

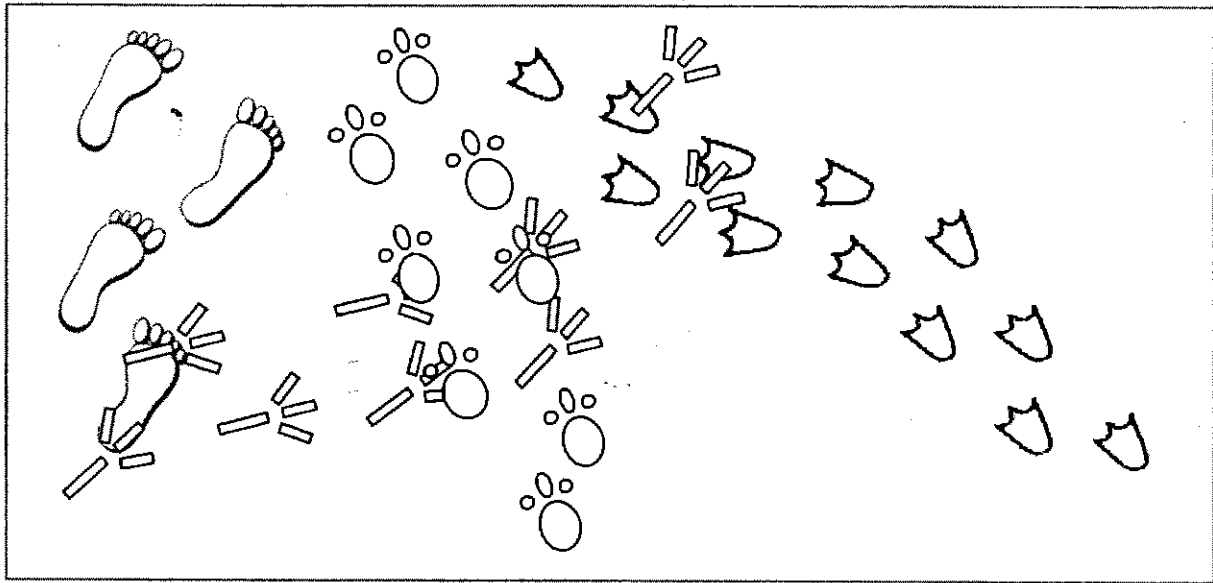
- (a) Which material(s) would be able to hold a weight of 25g? (1m)

- (b) Which material is the strongest? (1m)

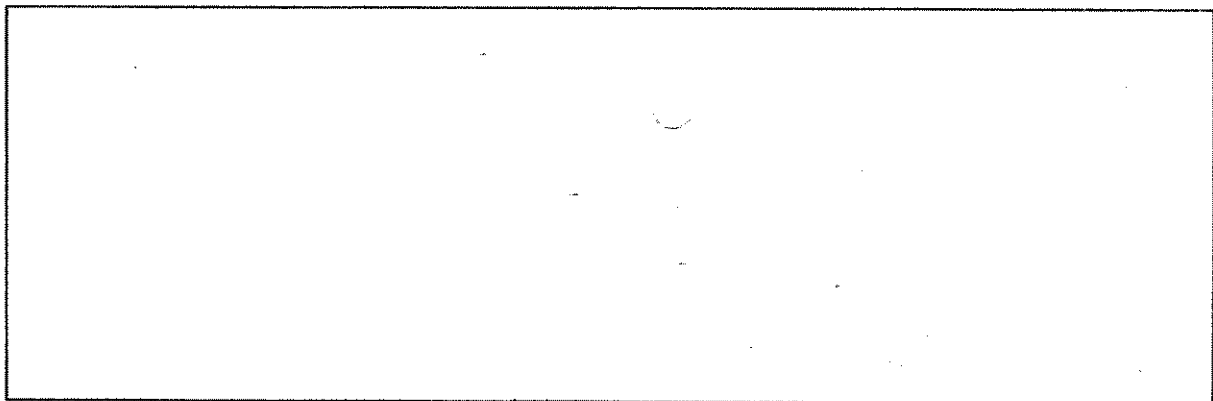
Material Z

- (c) Explain your answer in (b). (1m)

- 38 Susan observed some footprints left on the beach in the sand.



- (a) How many different living things made these footprints? (1m)
- _____
- (b) Draw **ONE** of the footprints that shows the **LAST** living thing that walked across the beach in the space below. (1m)





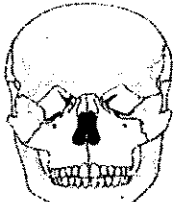

- 39 The classification below shows the functions of 4 different systems in our body.
 (a) Fill in the boxes with the helping words below. (2m)

Circulatory	Respiratory
Skeletal	Muscular

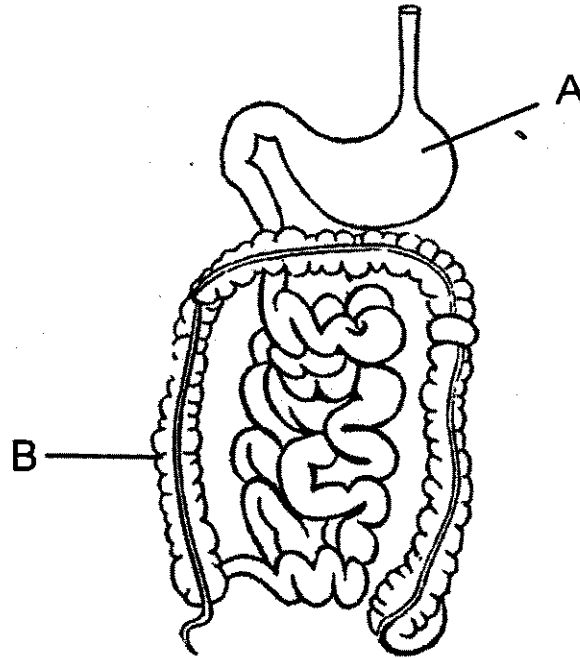
Body Systems

(i)	(ii)	(iii)	(iv)
Function: Pumps oxygen and blood to all parts of the body.	Function: Helps the different parts of the body to move.	Function: Takes in oxygen for the body.	Function: Supports the body and gives it shape.

- (b) Tick the organ below that is a part of the **respiratory system**. (1m)

			
Heart	Nose	Skull	Mouth

- 40 The diagram below shows some of the organs in our digestive system.

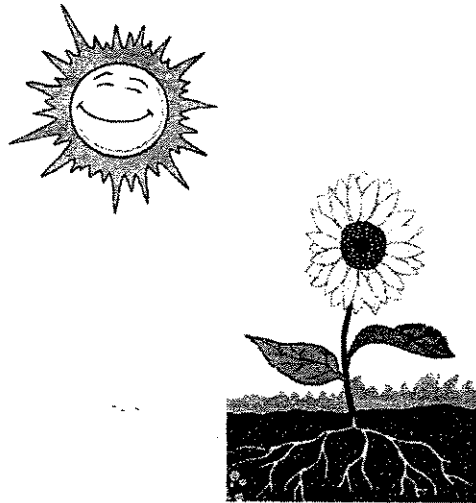


- (a) Name organ A as shown above. (1m)

A: _____

- (b) What is the function of Organ B? (1m)

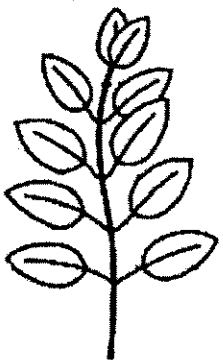
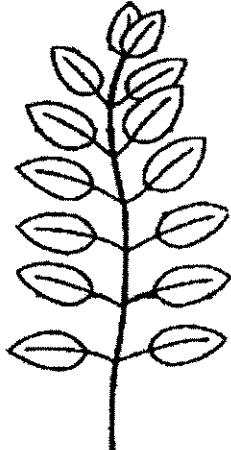
- 41 Plants carry out a process to make food when there is light.



- (a) What is this process called? (1m)
-
- (b) Besides sunlight, name **ONE** other thing plants need in order to carry out the process stated in (a). (1m)
-
- (c) Name the **part** of the plant that helps to take in / provide the thing stated in (b). (1m)
-

- 42 Jason carried out an experiment. He grew 2 pots of seedlings, **A** and **B** on the same day and took care of them for a week. He then measured the height of the seedlings on the 7th day.

The chart below records what he gave to each pot during the week. Study the chart carefully.

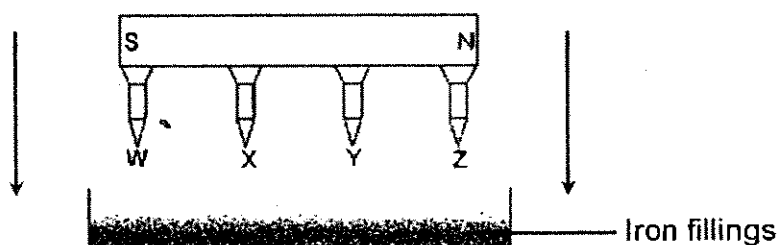
Seedlings	A	B
<div> <div>Height of the seedlings in cm</div> <div> 30 25 20 15 10 5 </div> </div>		
Amount of fertiliser given everyday	0ml	2ml
Amount of water given everyday	40ml	40ml
Location it was placed	Garden	Garden

- (a) Based on the chart, what was the aim of his experiment?
Complete the sentence below. (1m)

He wants to find out if _____

- (b) Name **ONE** thing that Jason has to keep the same for his experiment to be fair.
(**DO NOT** mention those already stated above.) (1m)

- 43 Four iron nails, **W**, **X**, **Y** and **Z** were attracted to a bar magnet as shown below. They were then lowered into a container of iron fillings.


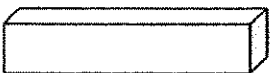
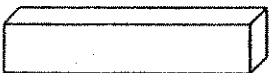


- (a) Which **TWO** iron nails would be able to attract the most iron fillings? (1m)

- (b) Explain your answer in (a) **CLEARLY**. (1m)

- 44 Ahmad carried out an experiment to find out the strength of 3 bar magnets, **A**, **B** and **C** by finding out the number of paper clips each magnet can attract.

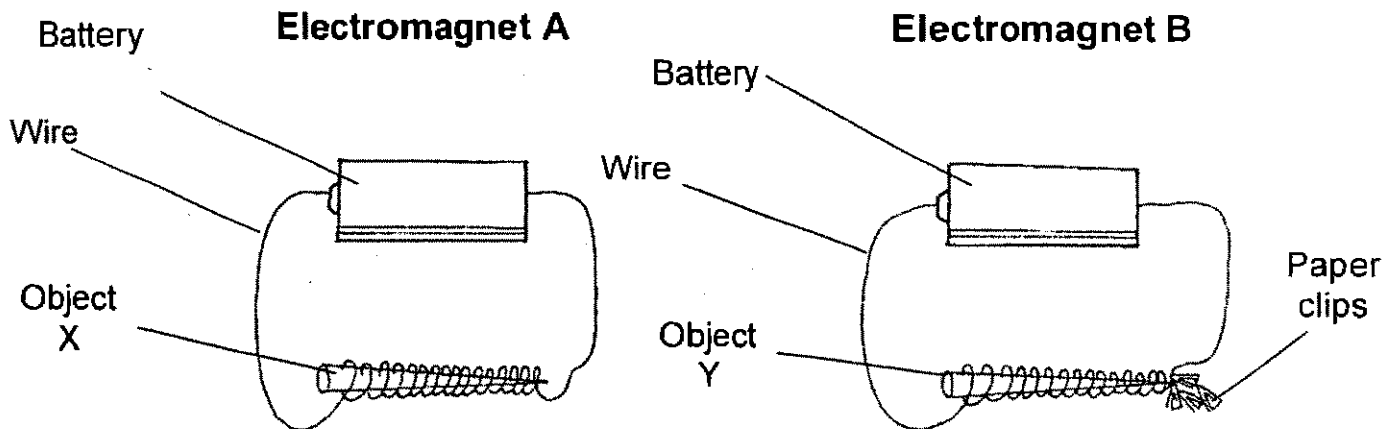
Below are his results.

Magnets		Number of paper clips attracted
A		5
B		8
C		6

- (a) Which is the strongest magnet? (1m)

- (b) What can Ahmad conclude about the strength of magnets of the same size and shape from his experiment? (1m)

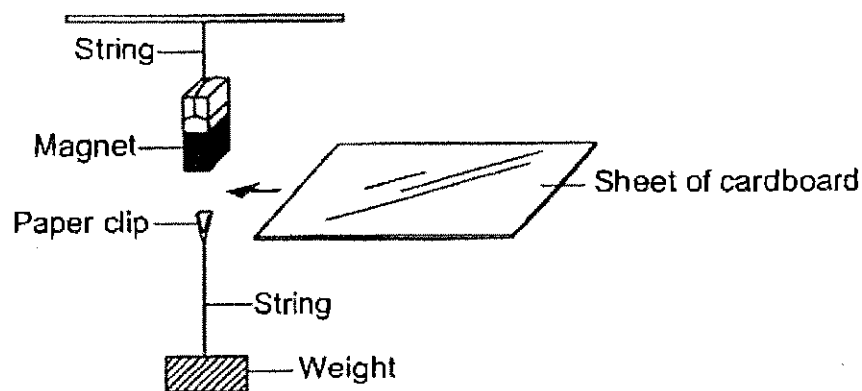
- 45 Jack made two electromagnets with Object X and Object Y as shown in the diagrams below.



- (a) Electromagnet A **did not** attract any paper clips. State **ONE** reason for that. (1m)

- (b) State **ONE** way to make electromagnet B attract more **nails**. (1m)

- 46 Kelly hung a bar magnet above a paper clip which was tied to a weight by a string. The paper clip was then suspended in the air as shown below.



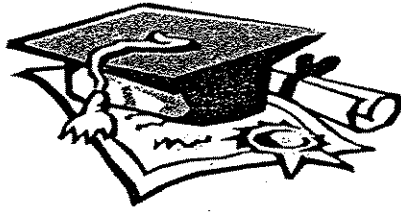
- (a) Kelly placed a sheet of cardboard between the magnet and the paper clip. What would she observe? (1/2m)

- (b) Kelly then placed an **iron sheet** between the magnet and the paper clip. What would she observe? (1/2m)

- (d) Which characteristic of magnets is Kelly trying to show? (1m)

Setters: Mdm Taufik
Ms Tan YH

End of Booklet B



ANSWER SHEET

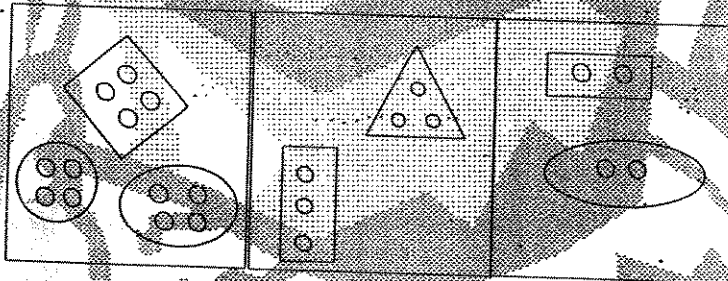
Henry Park Pri 3 SA2/2007 SCIENCE

- 1)1 2)4 3)1 4)2 5)3 6)1
 7)2 8)2 9)2 10)3 11)2 12)3
 13)1 14)2 15)2 16)4 17)3 18)3
 19)3 20)1 21)4 22)3 23)4 24)3
 25)3 26)4 27)2 28)4 29)1 30)1

31)a. A b. i. 11kg ii. 2kg

32)a. shapes b. Siti has classified the buttons according to colour.

33)c.



33)d. The number of holes

33)a. stage 4 b. That is when the leaves has developed completely.

34)a. i. Fruit A has many seeds while fruit B has one seed.

34)a. ii. Fruit B has lines while fruit A does not.

34)b. They both have seeds.

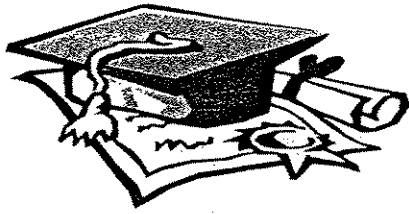
35)a. i. Parent B has attached ear lobe. ii. Parent B has straight, black hair.

35)b. C

36)a. Animal P

b. Animal R is likely to lay eggs. C. insects

37)a. materials Y and Z b. Material Z c. It can hold up to 50g.



ANSWER SHEET

Henry Park Pri 3 SA2/2007 SCIENCE

38)a. 4 different living things

38)b.

39)a. i. Circulatory

ii. Muscular

iii. Respiratory

iv. Skeletal

39)b. nose

40)a. Stomach b. Organ B helps to remove excess water from the undigested food.

41)a. Photosynthesis b. Water c. Roots

42)a. fertilizers will affect the height of plants.

42)b. The size of plot/ the amount of soil / type of soil/ type of p[lant.

43)a. W and Z.

b. Magnets are strongest at its poles.

44)a. Magnet B

b. They may not have the same magnetic power.

45)a. Electromagnet A did not attract any paper clips because the battery did not have enough power.

45)b. Increase the number of battery.

46)a. That paper clip still suspended in the air.

b. The paperclip will drop.

46)c. Magnetism passes through non magnetic materials but does not pass through magnetic materials.



南洋小學
NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE
SEMESTRAL ASSESSMENT 2

2007

BOOKLET A

Date : 26th October 2007

Duration : 1 h 45 min

Name : _____ ()

Class : Primary 3 ()

Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature: _____

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.

Booklet A consists of 16 printed pages including this cover page.

Section A (30 x 2 marks = 60 marks)

1. What characteristics do all mammals have?

- (1) They cannot fly.
- (2) They live on land.
- (3) They have hair on their body.
- (4) They give birth to their young alive.

2. Which one of the following does not make its own food?

- (1) hydrilla
- (2) mimosa
- (3) bread mould
- (4) bird's nest fern

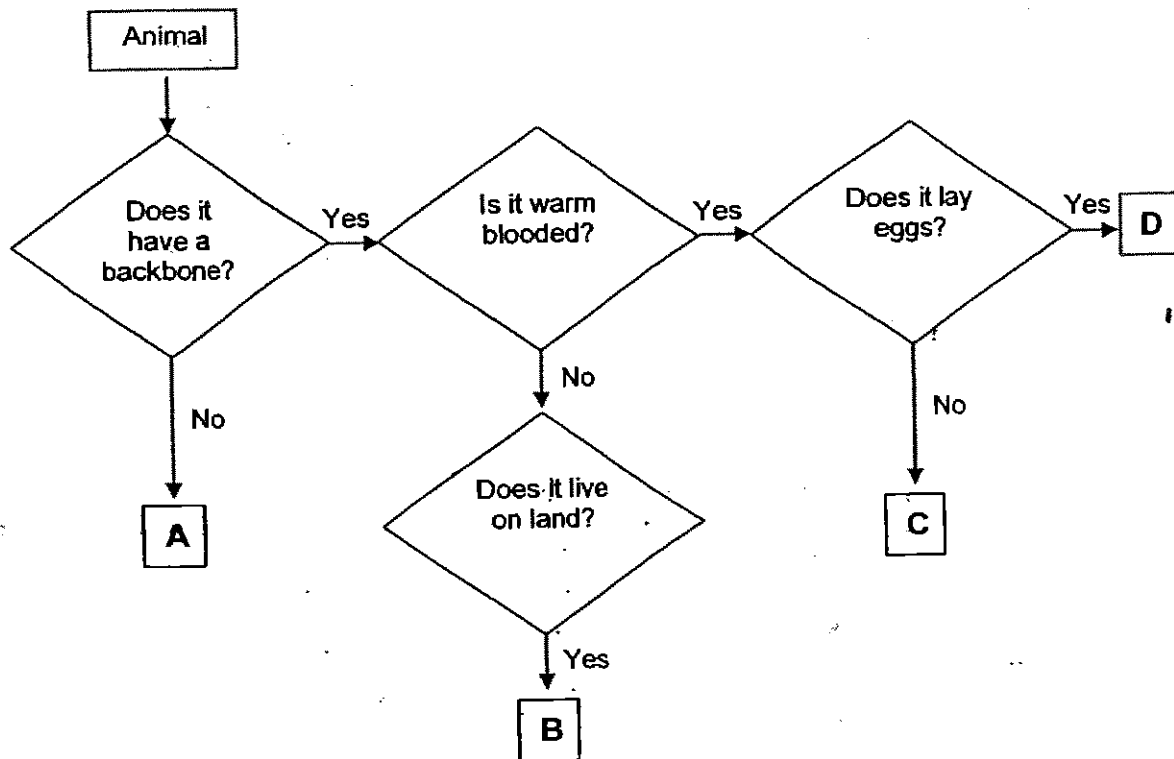
3. The table below shows how some fruits were grouped.

	One seed	More than one seed
Smooth Skin	A	C
Rough Skin	B	D

Which fruit would most likely be a rambutan?

- (1) A
- (2) B
- (3) C
- (4) D

4. Study the flow chart below.



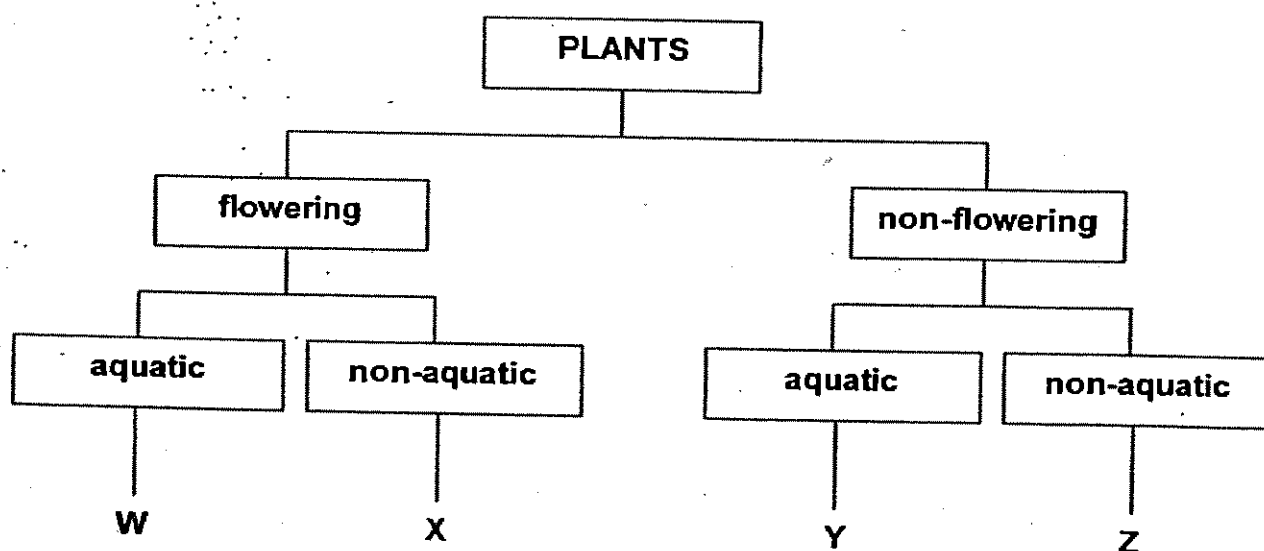
Which of the following can be represented by A, B, C and D?

	A	B	C	D
(1)	earthworm	turtle	platypus	ostrich
(2)	slug	lizard	dolphin	platypus
(3)	snake	frog	goldfish	pigeon
(4)	snake	dog	butterfly	toad

5. The following table shows some information on four plants A, B, C and D. A (✓) indicates that the plant has the characteristic.

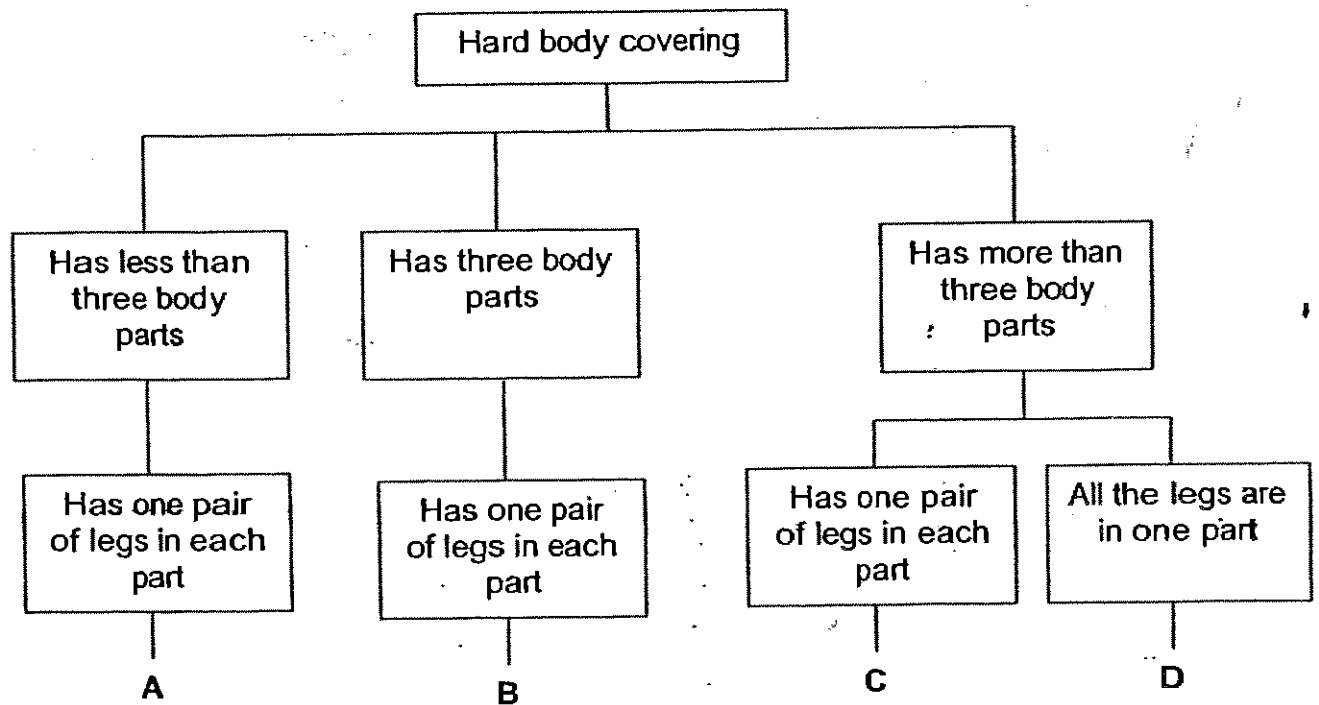
	A	B	C	D
Bears fruit	✓		✓	✓
Grows in water		✓	✓	

Based on information above, which letters, W, X, Y or Z best represent plants C and D?

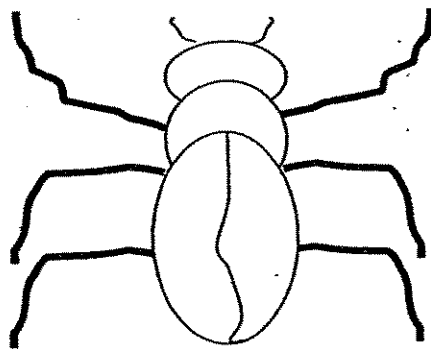


	Plant C	Plant D
(1)	W	X
(2)	X	Y
(3)	Y	Z
(4)	Z	W

6. Study the classification chart below.



Rebecca found the following animal and noticed that it has a hard body covering.



Which group A, B, C or D, does this animal belong to?

- (1) A
(3) C

- (2) B
(4) D

7. Denton caught some animals and told Wei Xiong that all the animals were insects. To find out if Denton is correct, Wei Xiong decided to carry out the following activities.

- A Find out whether they can fly.
- B Find out whether they are herbivores
- C Count the number of legs of each animal.
- D Count the number of body parts of each animal.

Which of Wei Xiong's activities will help him confirm whether the animals are insects?

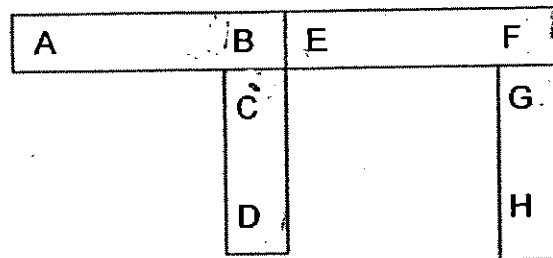
- (1) A and C only
- (2) B and D only
- (3) C and D only
- (4) A, B, C and D

8. Plants take in water from the roots. Where is the water transported to?

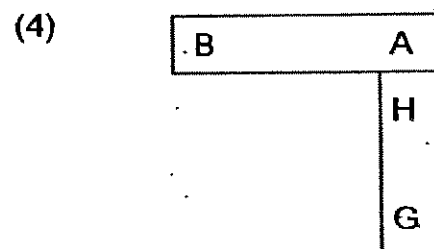
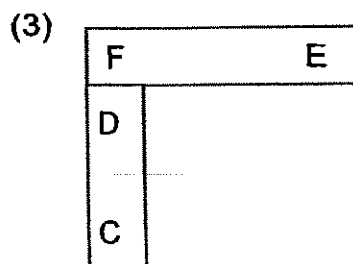
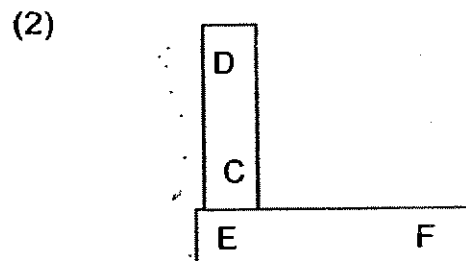
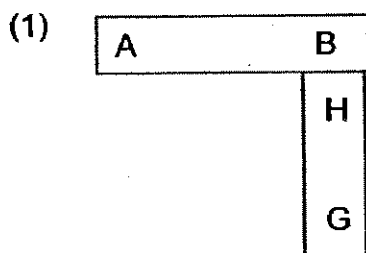
- A fruits
- B stems
- C leaves
- D flowers

- (1) A only ✓
- (2) A and B only ✓
- (3) A, B and C only
- (4) A, B, C and D

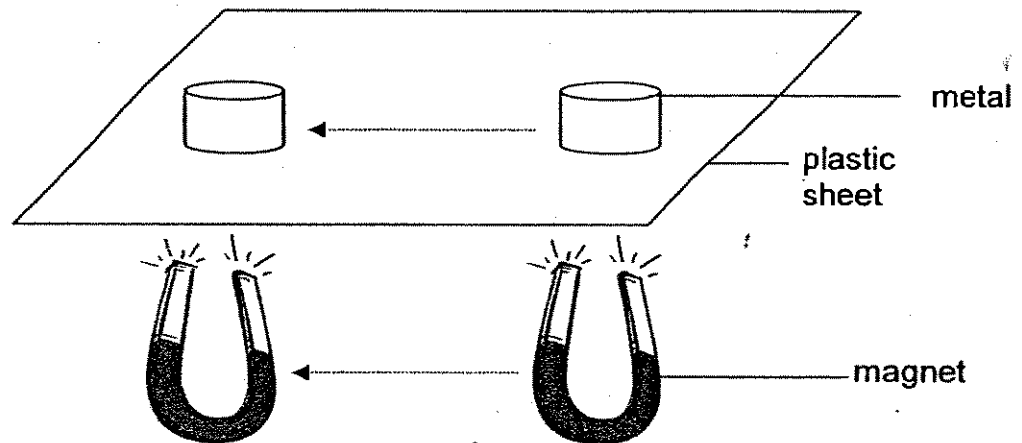
9. ^{Four} ~~Three~~ bar magnets with their ends marked A to F can be arranged in the manner as shown below.



Which of the following diagrams shows a possible arrangement of two of the magnets?

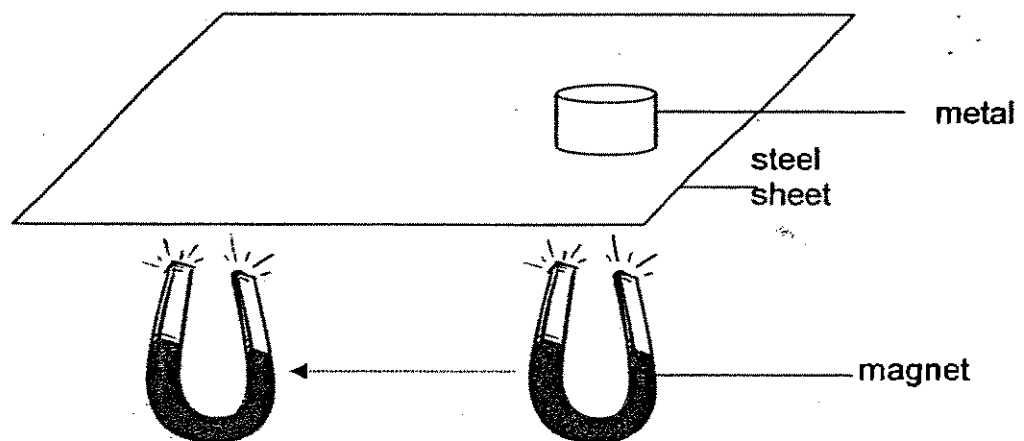


10. Muthu placed a piece of metal on a plastic sheet and held a magnet under the sheet as shown in the diagram below.



He noticed that when the magnet moved, the metal piece moved in the same direction.

Later, Muthu replaced the plastic sheet with a steel sheet of the same thickness and repeated the experiment and noticed that the metal piece did not move.



Which one of the following could be the possible explanation for the metal piece not moving?

- (1) Steel is a non-magnetic material.
- (2) The steel sheet will repel the piece of metal.
- (3) Magnetism cannot pass through the steel sheet.
- (4) The steel sheet had become a temporary magnet.

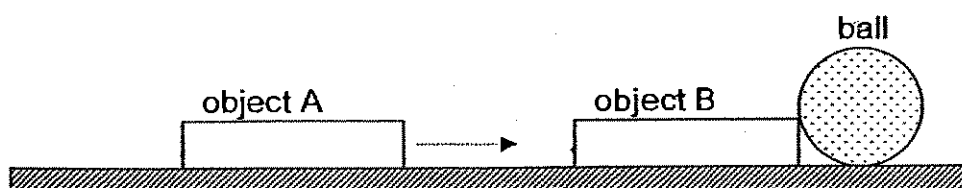
11. Ting Ting wanted to test the strength of four magnets A, B, C and D. She placed each magnet near a pile of pins and recorded her observation.

Magnet	Number of pins attracted	Distance between magnet and pin (cm)
A	10	2
B	9	3
C	12	1
D	7	3

Which one of the following statement is most likely to be correct?

- (1) Magnet D is the weakest.
- (2) Magnet A is stronger than magnet B
- (3) Magnet C is stronger than magnet A
- (4) Magnet B is stronger than magnet D

12. In the diagram below, when object A was placed near to object B, the ball was pushed off the table by object B.



What can object A and B be?

	A	B
(1)	Steel	Plastic
(2)	Nickle	Magnet
(3)	Iron	Steel
(4)	Magnet	Magnet

13. Grace wanted to compare the hardness of 4 table tops A, B, C and D. She scratched each of them ten times with an iron rod and recorded the number scratches found on each table top after that. Her observations are recorded in the table below.

Table Top	Number of scratches
A	3
B	6
C	5
D	4

Arrange the 4 table tops from the hardest to the softest.

	hardest	→	softest
(1)	A,	B,	C, D
(2)	A,	D,	C, B
(3)	B,	C,	D, A
(4)	B,	D,	A, C

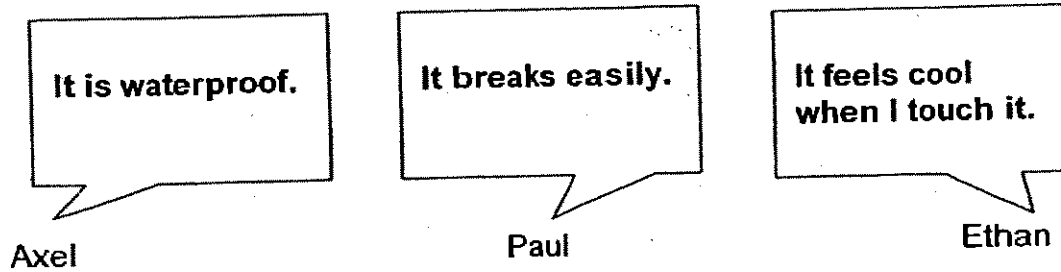
14. Sara selected four materials, A, B, C and D, to make some products. She recorded her choice and the corresponding reasons in the table below.

Material	Reason for the use of the material
A	It is a good conductor of heat.
B	It is durable and not flammable.
C	It is light and not waterproof.
D	It is flexible and can be sewn together easily

Which material(s) A, B, C or D could be metal?

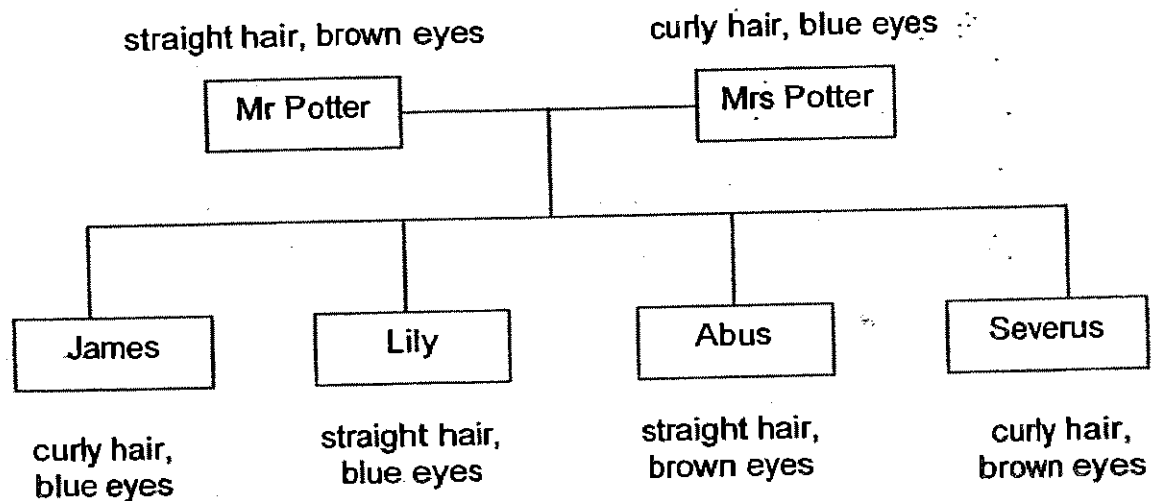
- (1) A only
- (2) A and B only
- (3) A, B, and C only
- (4) A, B, C and D

15. Three boys are talking about an object which they have just found.



Which one of the following is the object most likely to be?

- (1) coin
(2) handkerchief
(3) tree branch
(4) porcelain plate
16. The family tree below shows what traits each child possesses from Mr and Mrs Potter.



Which child most resembles Mrs Potter?

- (1) James
(2) Lily
(3) Abus
(4) Severus

17. Harry observed a fruit very carefully and made the following observations:

- It is cold.
- It is green
- It has hairy skin
- It has a strong smell.

How many sense organs did he use when he made the above observations?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

18. Shobana caught an animal and she thinks that it is the nymph of a cockroach. Which of the following observations can help her confirm that it is indeed the nymph of a cockroach?

- A: It has 6 legs
- B: It has two body parts.
- C: It does not have wings.
- D: It looks like the adult cockroach.

- (1) A and B only
- (2) B and C only
- (3) A, B and C only
- (4) A, C and D only

19. Which of the following systems can be found in plants?

- A: Skeletal system
- B: Digestive system
- C: Muscular system
- D: Transport system ✓

- (1) A only
- (2) D only
- (3) A and B only
- (4) C and D only

20. Billy, Joshua and Marcus were trapped in a lift for 20 minutes. There was no fresh air entering the lift. Which of the following shows the change in amount of gases in the lift after 20 minutes?

	Oxygen	Carbon Dioxide
(1)	increase	increase
(2)	increase	decrease
(3)	decrease	increase
(4)	decrease	decrease

21. The table below shows the characteristics of Edwin's parents.

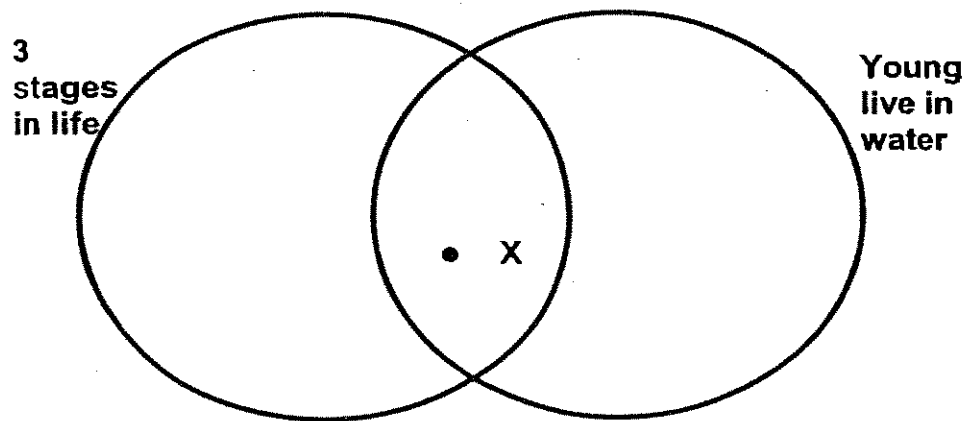
Parent	Description
Mother	<ul style="list-style-type: none">● tall● slim● smiles readily● has curly, brown hair
Father	<ul style="list-style-type: none">● short● stocky● likes to sing● has straight, blond hair

Based on the above information, what characteristics would Edwin most likely have?

- (1) Edwin has white teeth.
 - (2) Edwin can play football well.
 - (3) Edwin has straight and brown hair.
 - (4) Edwin is overweight and he likes to eat food.
22. Andy was eating some French fries when he started to choke. Which one of the following is the most likely reason why he choked?

- (1) The food enters his gullet.
- (2) The food enters his windpipe.
- (3) The food was too big for his stomach.
- (4) The food cannot be digested anymore.

23. Study the Venn diagram carefully.



Which one of the following animals can 'X' be?

- (1) chicken
- (2) butterfly
- (3) dragonfly
- (4) grasshopper

24. Which of the following statement(s) is/are true about our digestive system?

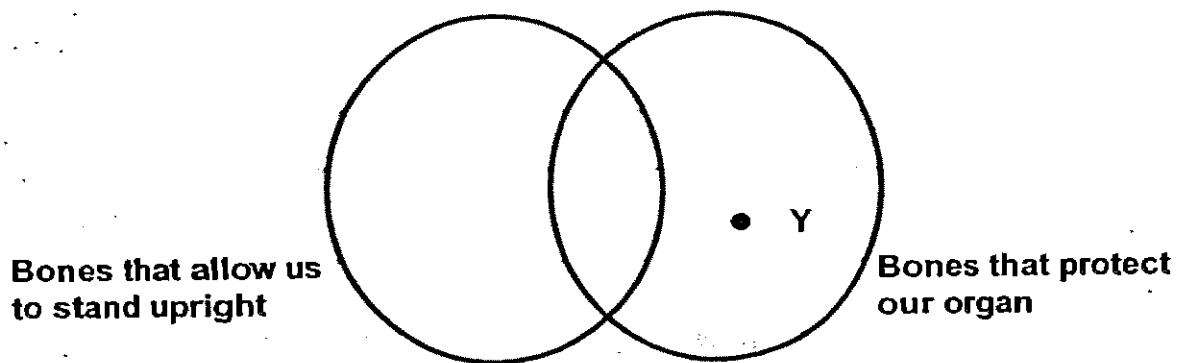
- A: The tongue is part of our digestive system.
- B: Our digestive system only breaks down food into smaller pieces
- C: Digestive juices are produced only in some parts of our digestive system.

- (1) A only
- (2) C only
- (3) A and B only
- (4) A and C only

25. The human body consists of many parts. Which one of these parts **does not** support the body?

- (1) biceps
- (2) ribcage
- (3) backbone
- (4) thigh bone

26. Study the Venn diagram below.



Which of the following could 'Y' be?

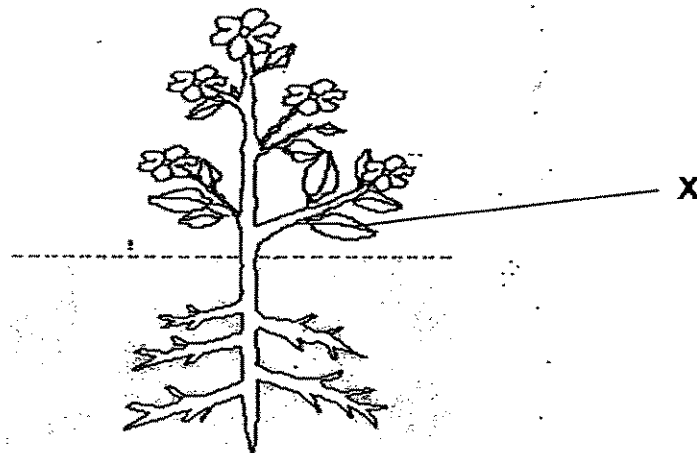
- (1) skull
 - (2) knee cap
 - (3) backbone
 - (4) shoulder joints
27. Which of the following organs have muscles?
- A: heart
 - B: gullet
 - C: tongue
 - D: stomach
- (1) A and D only
 - (2) A, B and D only
 - (3) B, C and D only
 - (4) A, B, C and D

28. Which of the following are functions of the roots of a plant?

- A: Make food for the plant
- B: Transport sugar to the stem
- C: Hold the plant firmly to the soil
- D: Take in water and mineral salts from the soil

- (1) A and B only
- (2) A and C only
- (3) B and D only
- (4) C and D only

29. The diagram below shows a flowering plant, What is the function of the part marked 'X'?



- (1) It supports the plant
- (2) It grows into flowers
- (3) It makes food in the presence of sunlight
- (4) It takes in moisture from the air

30. What does a seed need to germinate?

- A: air ✓
- B: water ✓
- C: warmth ✓
- D: fertiliser

- (1) A, B and C only
- (2) A, B and D only
- (3) A, C and D only
- (4) A, B, C and D



南洋小學

NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE

SEMESTRAL ASSESSMENT 2

2007

BOOKLET B

Date : 26 Oct 2007

Duration : 1 h 45 min

Name : _____ ()

Class : Primary 3 ()

Marks Scored:

Booklet A:	60
Booklet B :	40
Total :	100

Parent's signature:

**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

Booklet B consists of 16 printed pages including this cover page.

Section B (40 marks)

Write your answers to questions 31 to 46 in the spaces provided.
Marks will be deducted for misspelt key words.

31. Anne placed the following objects into a basin of water one at a time.

marble	drinking straw	coin
ice-cream stick	steel plate	plastic food wrap

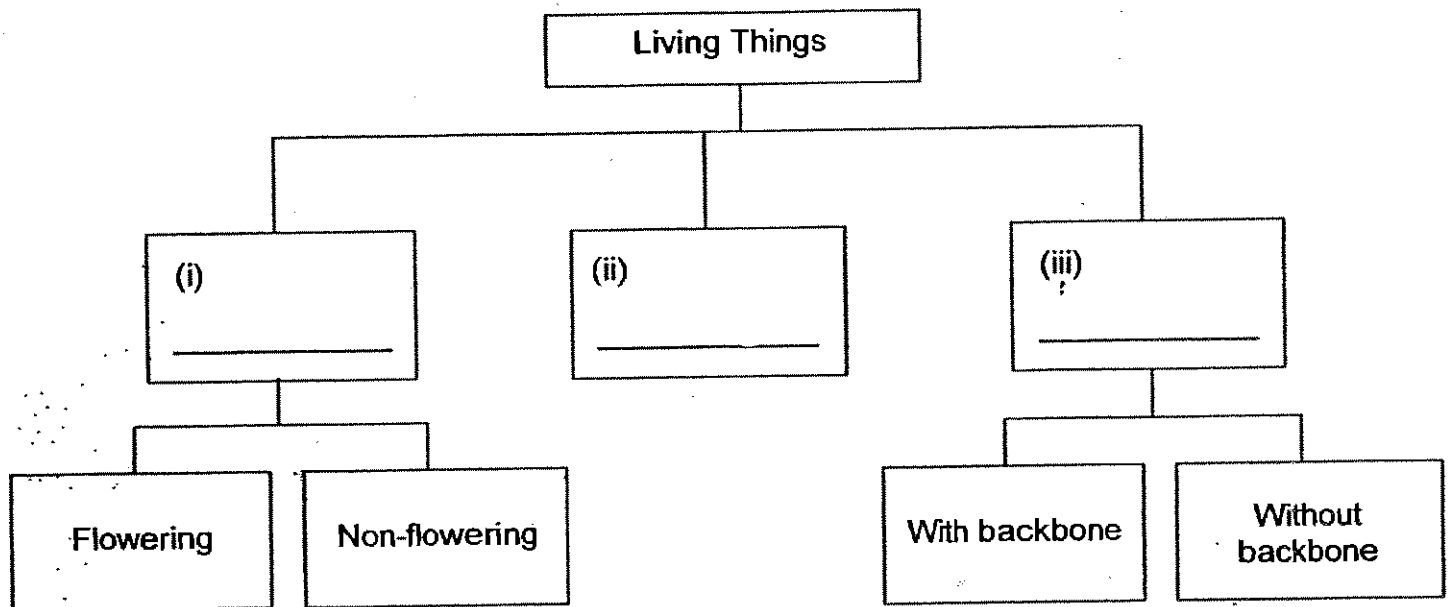
She made some observations and recorded her results in the table below.

(a) Based only on what she had observed, give suitable headings for the classification table. (1 mark)

(b) Fill in the table with the correct objects according to her classification. (3 marks)

(a)	Group 1: _____	Group 2: _____
(b)	• _____	• _____
	• _____	• _____
	• _____	• _____

32. Study the classification chart below.



- (a) Write "Fungi" in the correct box (i), (ii) or (iii) in the classification chart above. (1 mark)
- (b) State the difference between how the tomato plant reproduces and how the mushroom reproduces. (1 mark)

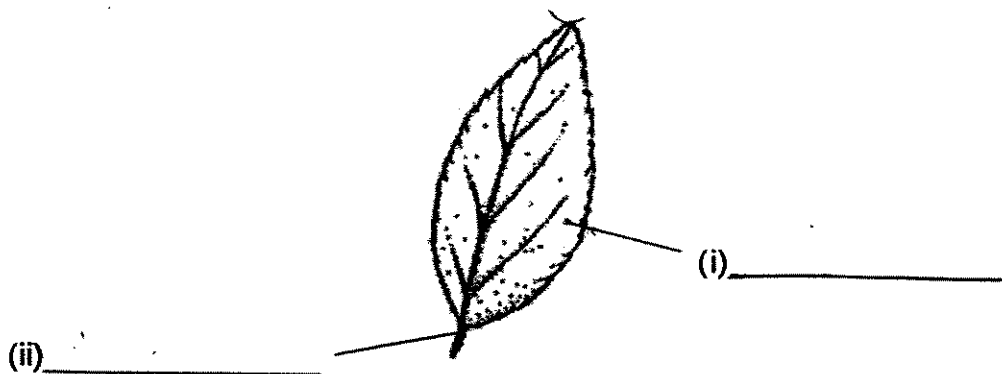
33. Kiah Wee conducted an experiment to find out how a seed grows into a seedling. He placed the seedling in a room and recorded the mass of the seed leaf and the shoot during the experiment.

	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
X	1 g	0.9 g	0.6 g	0.5 g	0.3 g	0.1 g
Y	0 g	0.1 g	0.2 g	0.3 g	0.4 g	0.5 g

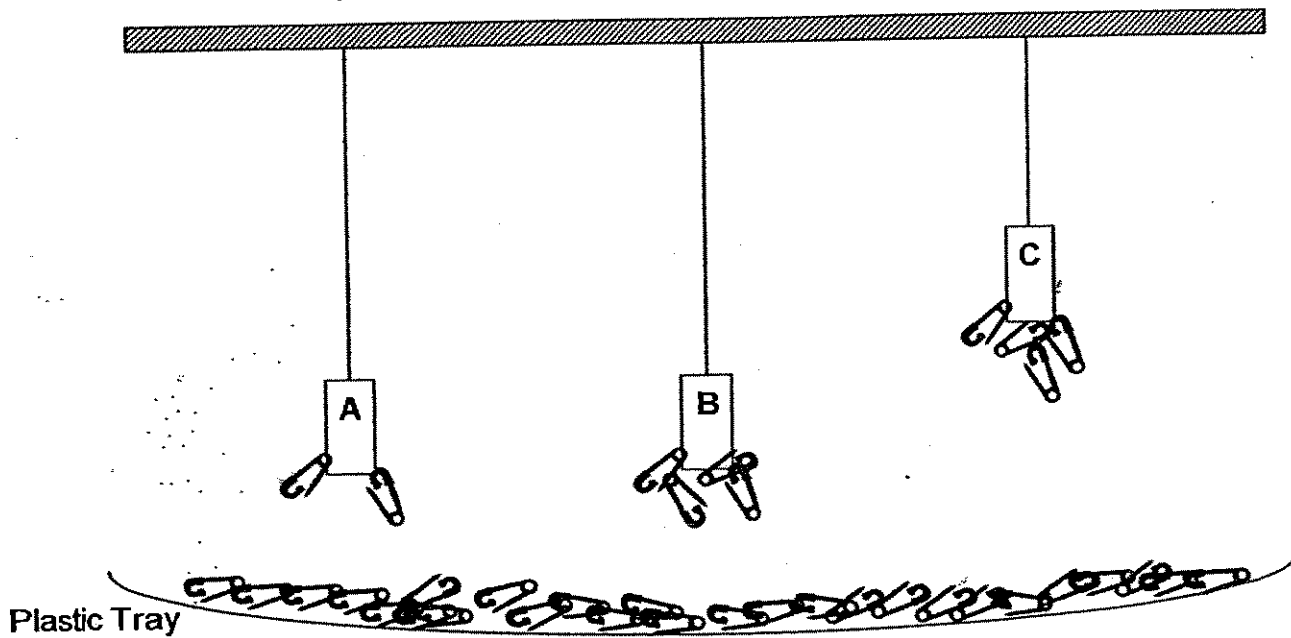
- (a) Is "X" or "Y" most likely to be the shoot? (1 mark)

- (b) Explain your answer in part (a). (1 mark)

- (c) The diagram below shows a leaf. Label the parts of the leaf by filling in the blanks. (1 mark)



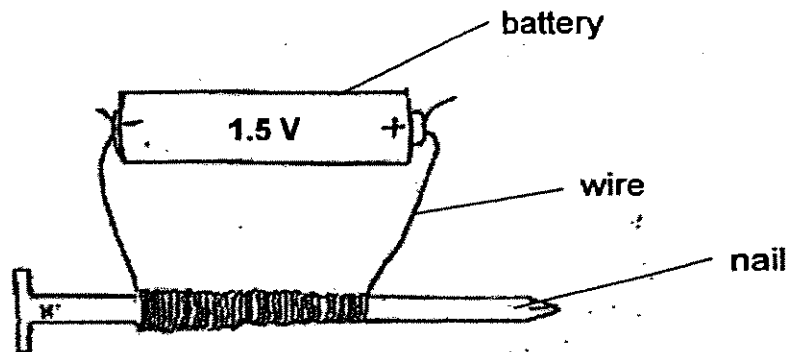
34. Megan conducted an experiment by hanging magnets A, B, and C above a plastic tray of safety pins. She spread the safety pins evenly throughout the tray. The diagram below shows what she had observed for her experiment.



Based on the experiment, put a (✓) in the columns below to indicate whether the conclusion that can be made by Megan is true or false. (2 marks)

	Conclusion	True	False
(a)	Magnet C is stronger than magnet A.		
(b)	Magnet B is the stronger than magnet A.		
(c)	Magnet C is stronger than magnet B.		
(d)	Magnet C and magnet B is of the same strength.		

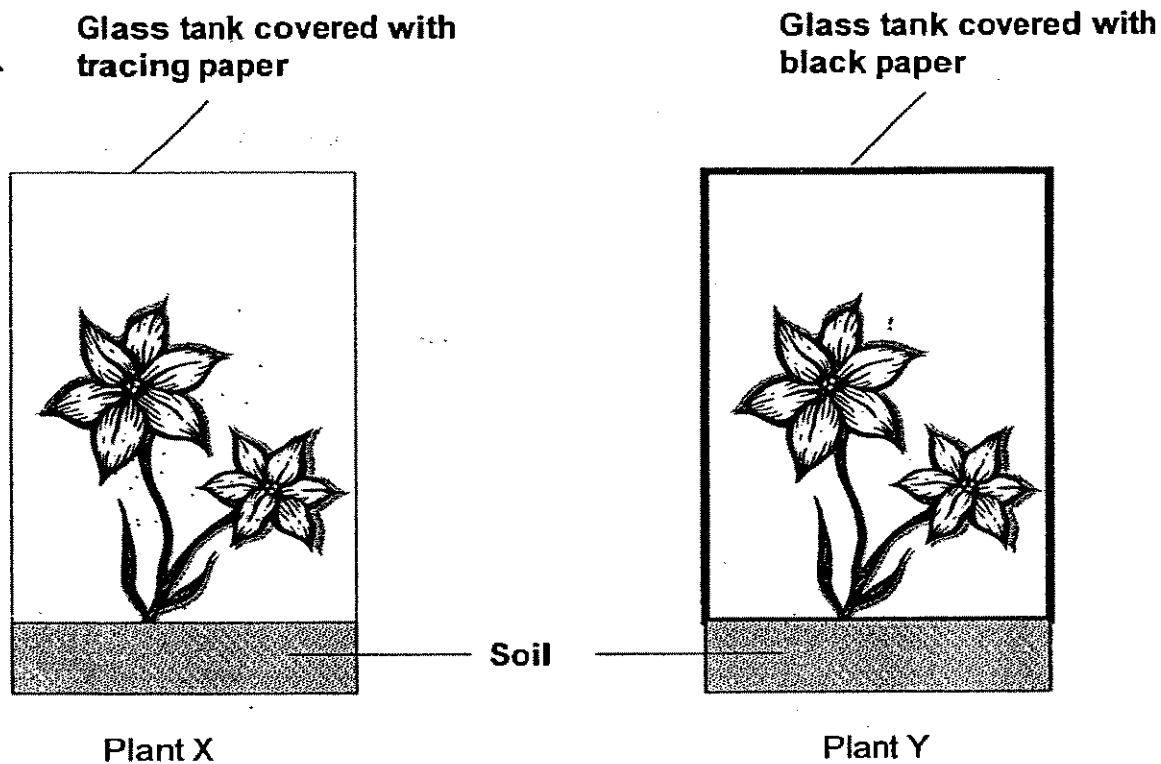
35. Shuyu made an electromagnet using a battery, a piece of wire and an iron nail as show below



- (a) Without adding any item to the set-up, suggest how you can make the electromagnet stronger. (1 mark)

- (b) Name another material that can be used to replace the iron nail to make an electromagnet. (1 mark)

36. Asfalinda measured the height of the two plants and placed them into two different glass tanks as shown below. The plants were watered and placed next to each other on a table near a window for three days.



She measured the height of the plants after three days. It was found that one of the plants had grown more compared to the other.

- (a) Which plant, X or Y, will most likely grow more after three days? (1 mark)

- (b) Explain your choice in (a). (1 mark)

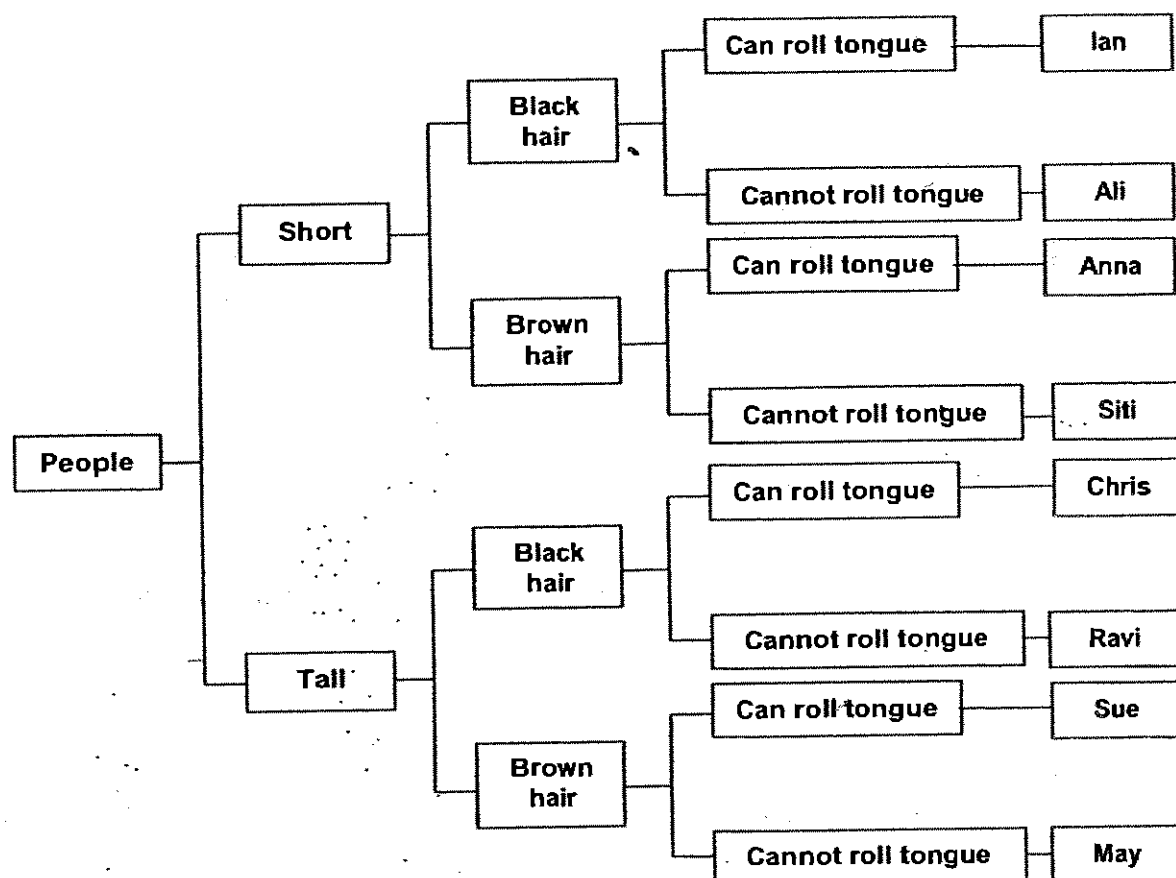
37. Amelia made a study of the number of mushrooms found on fallen tree trunks under different conditions.

Conditions	Number of mushroom
Bright and dry	6
Bright and moist	14
Shady and dry	12
Shady and moist	18

Based only on the information above, put a (✓) in the columns below to indicate whether the conclusions by Amelia is true, false or not possible to tell. (2 marks)

	Conclusion	True	False	Not possible to tell
(a)	Mushrooms grow best in moist and shady places.			
(b)	Mushrooms can only grow under moist condition.			
(c)	Mushrooms reproduce by spores.			
(d)	Mushrooms will grow better in shady places as compared to bright places.			

38. Study the classification table below.

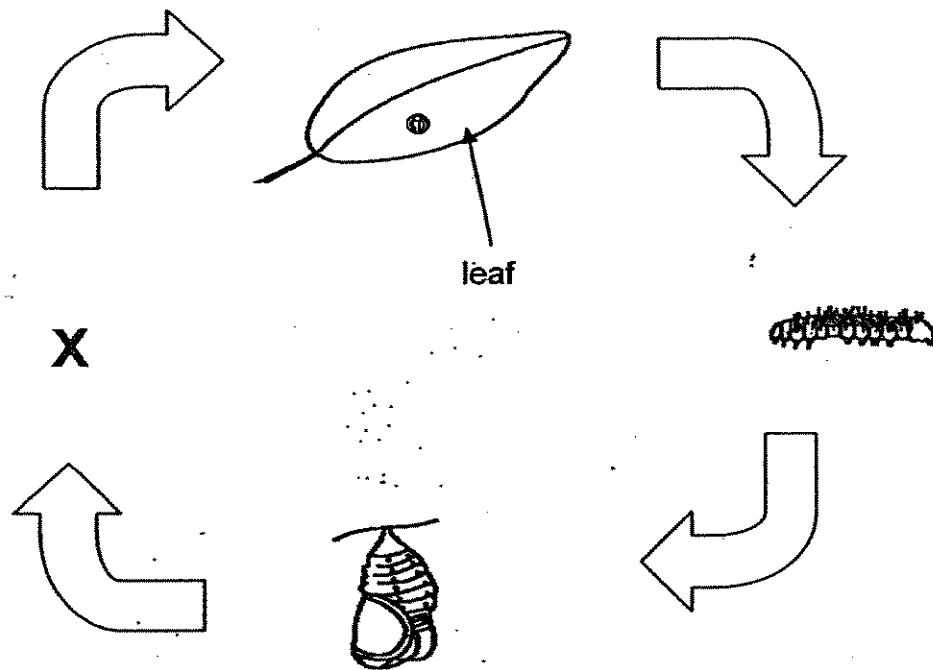


- (a) In the table below, fill in the blanks with the names of people that fit the description. (1 mark)

	Name	Description
(i)		A short boy with black hair and cannot roll his tongue.
(ii)		A tall girl with brown hair and cannot roll her tongue.

- (b) Using the information in the above classification table, is it possible to tell whether a boy could roll his tongue by looking at his hair colour? Explain your answer. (1 mark)

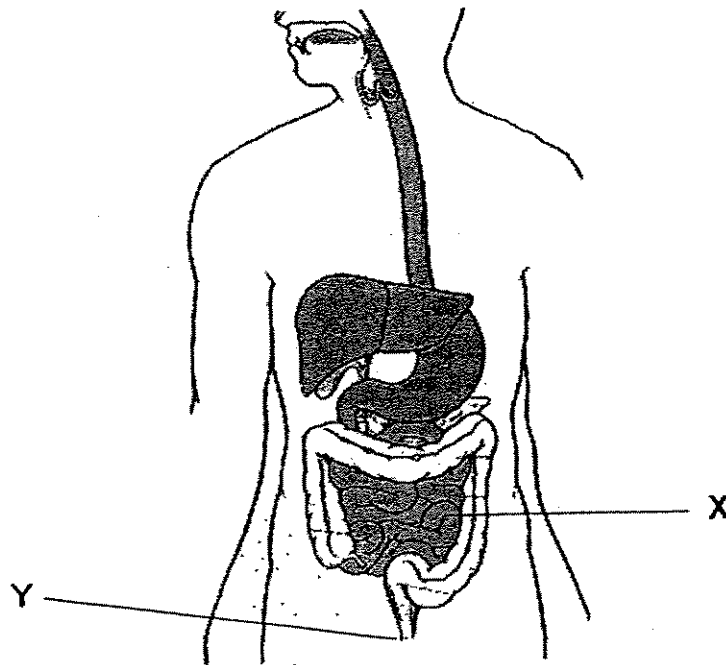
39. Calista studied the life cycle of an insect and drew a diagram to represent it as below.



- (a) Name the stage marked X. (1 mark)

- (b) Calista compared the above life cycle to that of a cockroach. State one difference between the two life cycles. (1 mark)

40. The diagram below shows the parts of the human digestive system.



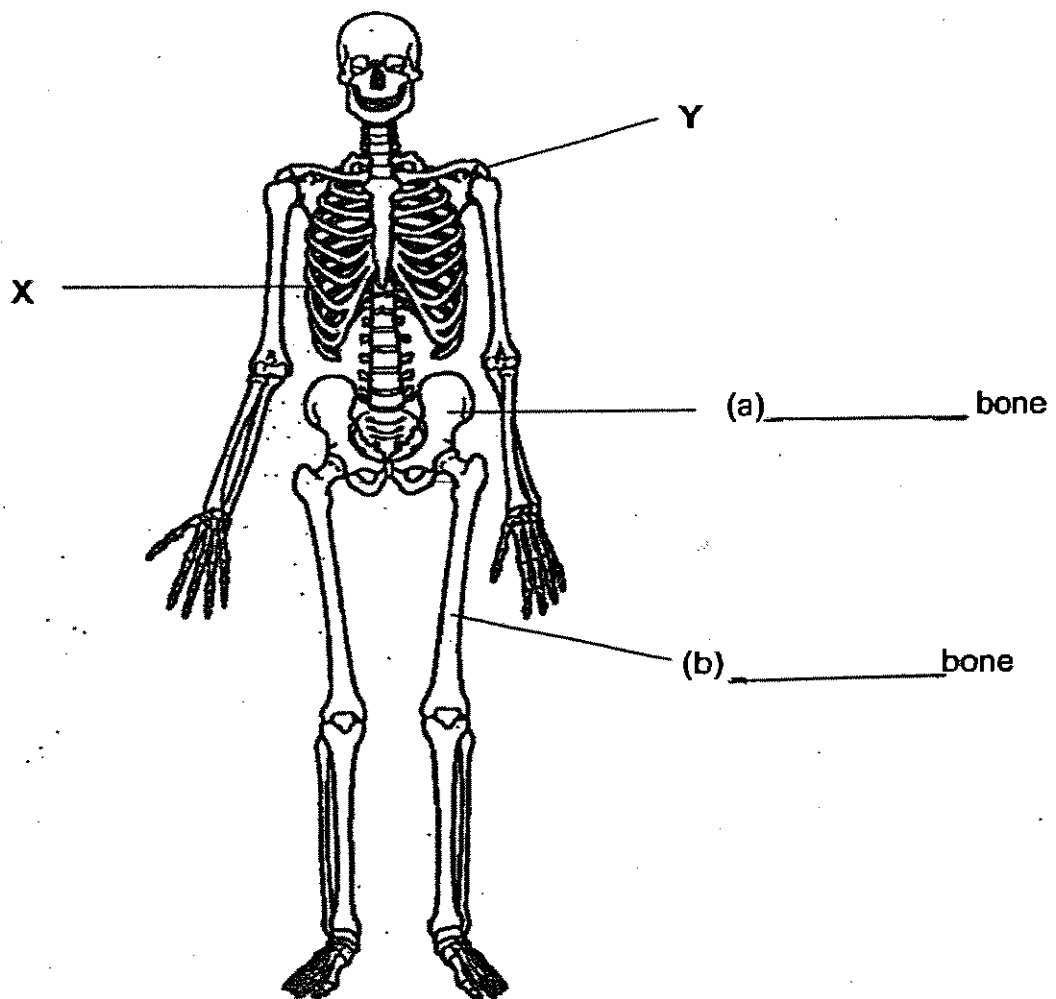
(a) Name the two parts of the digestive system indicated above. (2 marks)

(i) X: _____

(ii) Y: _____

(b) Name the organ in the digestive system where water will be absorbed from the undigested food. (1 mark)

41. Study the human skeleton shown below.
Fill in the blanks with the parts of the human skeleton. (1 mark)



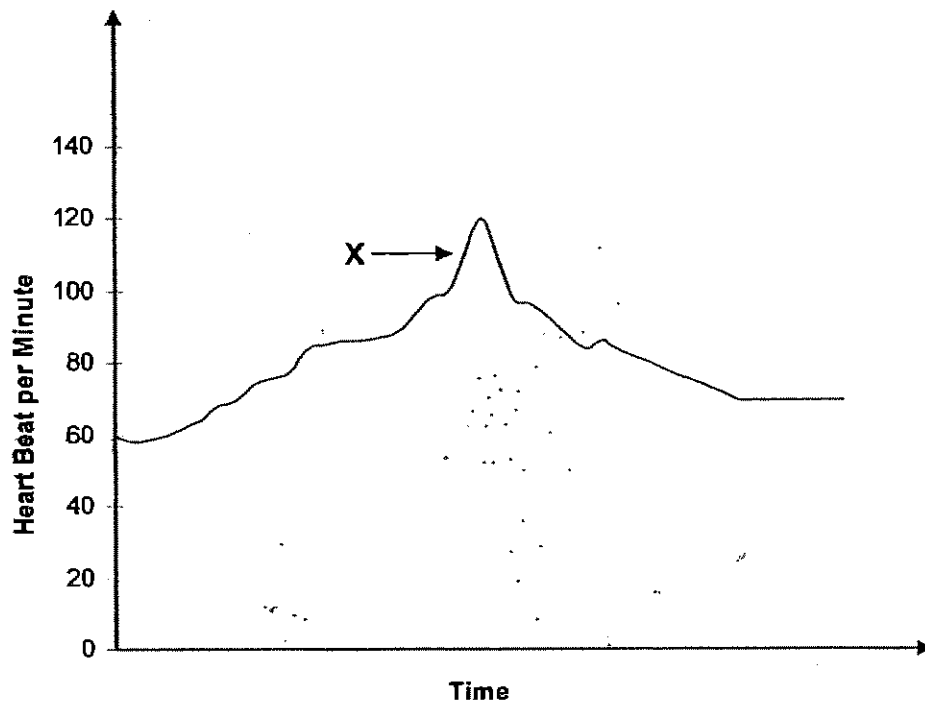
- (c) Name two organs which part X protects. (2 marks)

i. _____

ii. _____

- (d) Name the type of joint found at part Y. (1 mark)

42. On the average, Ethan's heart beats about 70 beats per minute. He was asked to carry a bag weighing 1 kg and perform the following tasks (not in order): running, sitting and walking. His heartbeats were recorded in the chart below.



- (a) What would Ethan most likely be doing at point X? (1 mark)

- (b) The maximum heartbeats per minute recorded in the above experiment was 120. If Ethan had done the activities carrying a bag weighing 5 kg instead, would you expect the maximum beats per minute to most likely be higher or lower than 120 beats per minute? (1 mark)

- (c) When we breathe, which gas in the air is taken in by the body for respiration? (1 mark)

43. Kenneth ate a bowl of noodles in the canteen. Later he told his friend, Lucas, that the noodles were hot and delicious. Lucas replied that he had seen Larry eating noodles at the canteen too.

From the description above, name three senses which Kenneth and Lucas had made use of. (3 marks)

(i) _____

(ii) _____

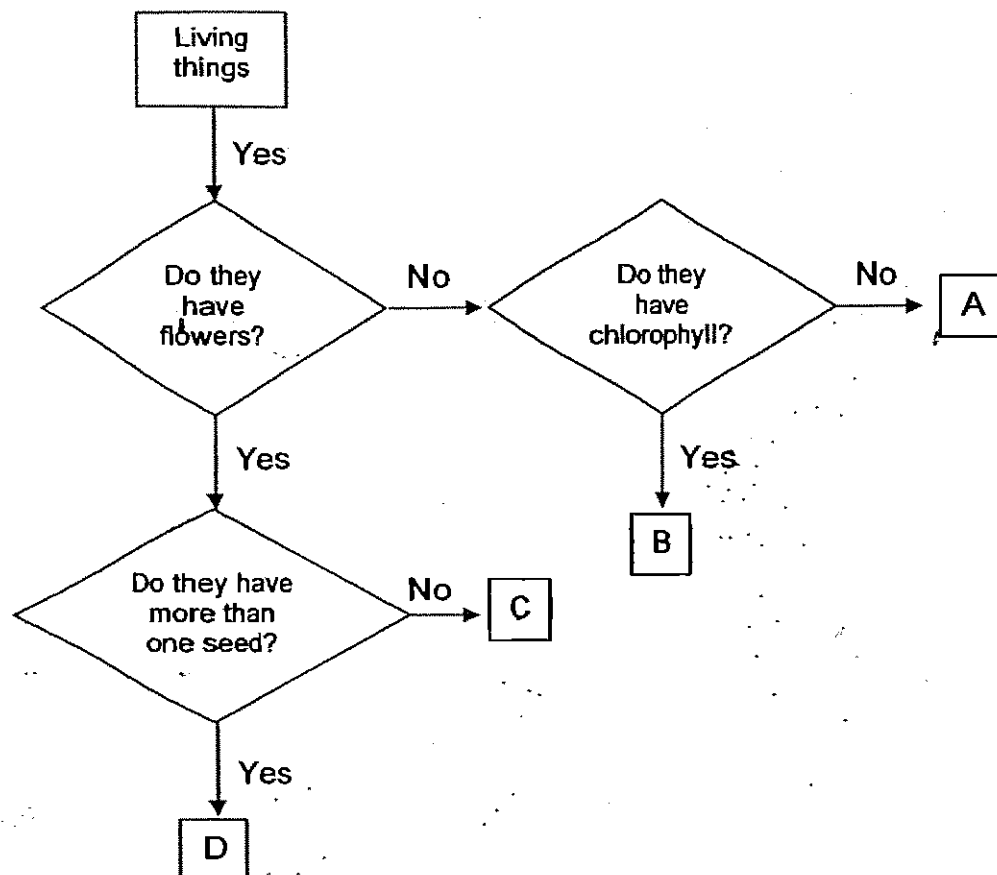
(iii) _____

44. The table below consists of systems of the human body. Fill in the blanks below with the letters that represents correct human body systems. (2 marks)

A) Digestive System	B) Respiratory System
C) Skeletal System	D) Circulatory System
E) Muscular System	

	FUNCTIONS	SYSTEMS
(a)	It contracts and relaxes to make movement possible.	
(b)	Carries food, water, oxygen and waste to and from various parts of the body.	
(c)	Supports our body and gives it shape	
(d)	Breaks down food into simpler substances for the body to absorb.	

45. Study the flow chart as shown below.



(a) State a similarity between A and B. (1 mark)

(b) State a difference between plant C and plant D. (1 mark)

(c) Which letter best represents 'staghorn fern'? (1 mark)

46. Muthu made the following statements about the human heart and lungs. Put a (✓) in the columns for statements that are true and a (x) for statement(s) that are false. (2 marks)

	Statements	True	False
(a)	The lungs help the body to produce oxygen		
(b)	The lungs remove carbon dioxide from the body.		
(c)	The lungs are organs of the circulatory system.		
(d)	The heart carries oxygen and circulates it in our body.		

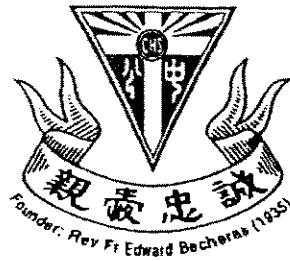
Setters: Ms Asfalinda Asmawi, Mr Yap Heng Yeow



NANYANG PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 3 31)a)Group 1:sink ...
2. 3 .marble
3. 2 Group 2:float
4. 2 .ice-cream stick
5. 1 b).coin .drinking straw
6. 2 .steel plate .plastic food wrap
7. 3
8. 4 32)a)ii) fungi
9. 4 b)A tomato plant reproduce from
10. 3 seeds while the mushroom
11. 4 reproduce from spores.
12. 4
13. 2 33)a)Y
14. 2 b)The seedling gets its food so
15. 4 the seed leaf so seed leaf "X"
16. 1 decreases in mass while the
17. 3 shoot "Y" grows and increases in
18. 4 mass.
19. 2 c)i)leaf blade ii)leaf stalk
20. 3
21. 3 34)a)T b)T c)T d)F
22. 2
23. 3 35)a)Coil more wires around the nail.
24. 4 b)The material is an metal rod
25. 1 made out of nickel.
26. 1
27. 4 36)a)It is plant X.
28. 4 b)Sunlight can pass though tracing
29. 3 paper but not black paper.
30. 1
37)a)T b)F c)Not d)T

- 38) a) i) Ali. ii) May
b) No. The cause of the people who can't roll tongue is passed down by the gens of the parent.
- 39) a) adult stage.
b) The above life cycle has four stages while the cockroach life cycle only has three.
- 40) a) i) Small intestine.
ii) anus
b) The organ is the large intestine.
- 41) a) hip b) thigh c) i) heart ii) lungs
b) The joint is the ball and socket joint.
- 42) a) Ethan most likely would be running.
b) It would be most likely to be higher.
c) We take in oxygen.
- 43) i) Sight ii) taste iii) smell
- 44) a) E b) D c) C d) A
- 45) a) A and b both do not have flowers.
b) Plant C has one seed while plant D has more than one seed.
c) Letter B is best to represent staghorn fern.
- 46) a) F b) T c) F d) F



**CATHOLIC HIGH SCHOOL
PRIMARY THREE
END-OF-YEAR EXAMINATION, 2007**

SCIENCE

Name: _____ ()

Class : Primary 3 _____

Date : 29 October 2007

BOOKLET A

30 Questions

60 Marks

Total Time for Booklets A & B : 1 hour 30 minutes

Instructions to Candidates

Do not open this booklet until you are told to do so.
Follow all instructions carefully.
Answer all questions.

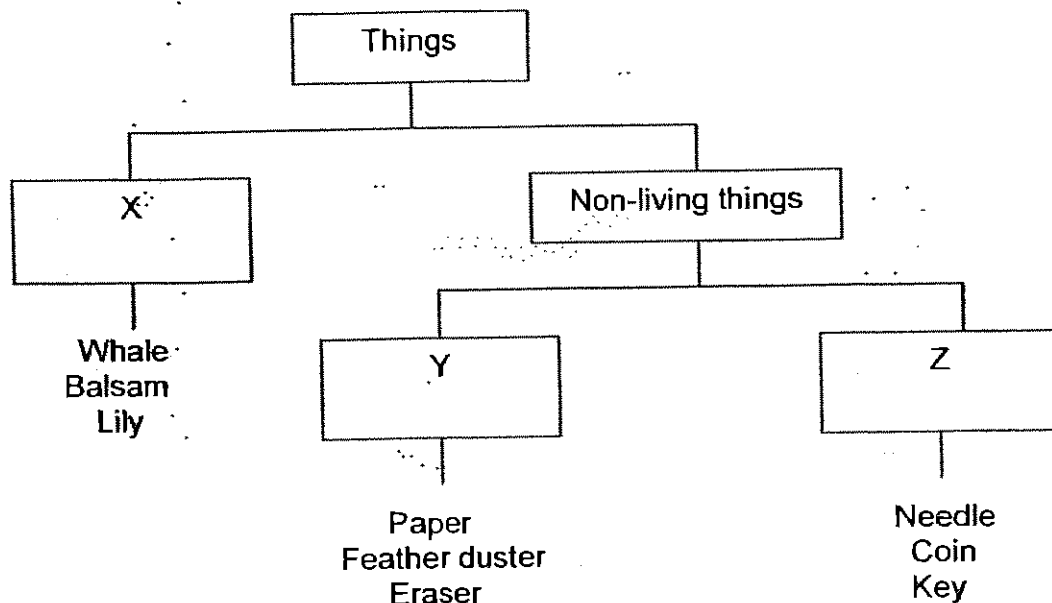
Section A: Multiple Choice Questions(60 marks)

For each question from 1 to 30, four options are given. One of them is the most suitable answer. Make your choice (1, 2, 3 or 4) on the Optical Answer Sheet.

1. Which of the following statements is incorrect?

- 1) Non-living things do not die.
- 2) Living things die quickly without air or water.
- 3) Living things can live for some time without food.
- 4) All living things move from place to place to get food, water and shelter. ()

2. Study the classification table below.



Which of the following can be placed under Y ?

- | | | |
|------------|-----------------|-----|
| 1) Bread | 2) Brick | () |
| 3) Claypot | 4) Nylon string | |

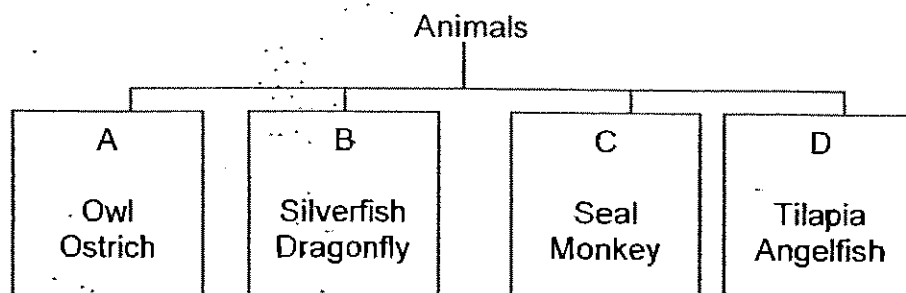
3. How is the Toadstool similar to the Rain tree?

- A They are poisonous.
- B They are fixed in position.
- C They cannot make its own food.
- D They respond to changes slowly.

- (1) A and C only
- (2) B and D only
- (3) A, B and C only
- (4) A, B, C and D

()

4.



In which group would you put the Bat?

- 1) A
- 2) B
- 3) C
- 4) D

()

5. The table below shows how a pupil classified plants into two groups.

Group A	Group B
Chrysanthemum Rose	Bird's nest fern Hydrilla

Which of the following is the best heading for the classification?

	Group A	Group B
(1)	Harmful plants	Useful plants
(2)	Inedible plants	Edible plants
(3)	Flowering plants	Non-flowering plants
(4)	Non-poisonous plants	Poisonous plants

()

6. Which of the following statements is true for the pupa stage in any life cycle?

- (1) The pupa does not eat.
- (2) The pupa is oval in shape.
- (3) The pupa lives on land only.
- (4) The pupa moults several times.

()

7. How many stages of the life cycle of a mosquito is/are spent in water?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

()

8. When humans reproduce, some characteristics are passed on to their children. Which of the following characteristics may be passed on?

- A Height
- B Fingerprints
- C Double eyelids

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

()

9. Which of the following comparisons between the life cycles of a beetle and a butterfly is correct ?

	Statements	Beetle	Butterfly
1)	Lays eggs in water	No	Yes
2)	Four stages in its life cycle	Yes	No
3)	Feeds on plants at young stage	Yes	No
4)	The adult has six legs.	Yes	Yes

()

10. In what ways are the cockroach and grasshopper similar ?

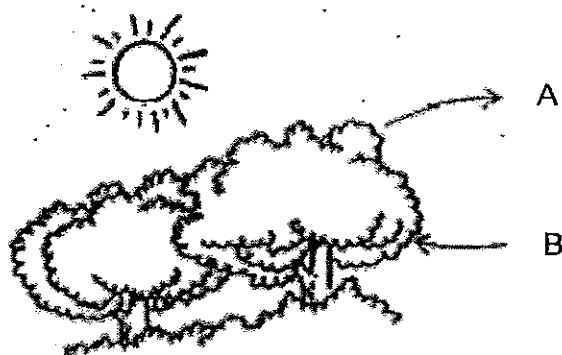
- A The young look like the adults.
- B They lay their eggs in the water.
- C Their nymphs eat the same food as the adults.
- D Their nymphs live in the same habitat as the adult.

- (1) A and B only (2) C and D only
 (3) A, C and D only (4) A, B, C and D ()

11. The green beans we get from provision shops will not germinate while they are in the packet because they do not receive any _____.

- (1) food (2) light
 (3) water (4) warmth ()

12. The diagram below shows the exchange of gases of a plant during photosynthesis in the day?



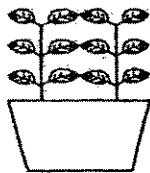
What are gases A and B?

	Gas A	Gas B
(1)	Carbon dioxide	Oxygen
(2)	Carbon dioxide	Water vapour
(3)	Oxygen	Carbon dioxide
(4)	Oxygen	Water vapour

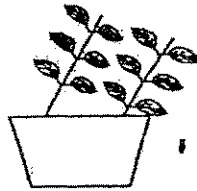
()

13. 3 similar plants were placed in an open field and covered with a black box. 2 of the boxes had a hole each made at different parts of the black box. The third box had 2 holes made at different parts of it.

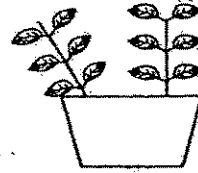
The diagram shows what the plants looked like after a week.



Plant A



Plant B



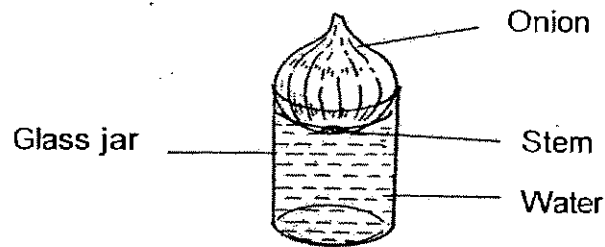
Plant C

Which one of the following correctly shows the boxes in which each plant was placed in?

	Pot A	Pot B	Pot C
(1)			
(2)			
(3)			
(4)			

()

14. Dawei placed an onion on top of a glass jar filled with water. The water level just covered the stem of the onion.



What did he observe after a few days ?

- A The water level fell.
- B The water level rose.
- C Roots started to grow.

(1) A only

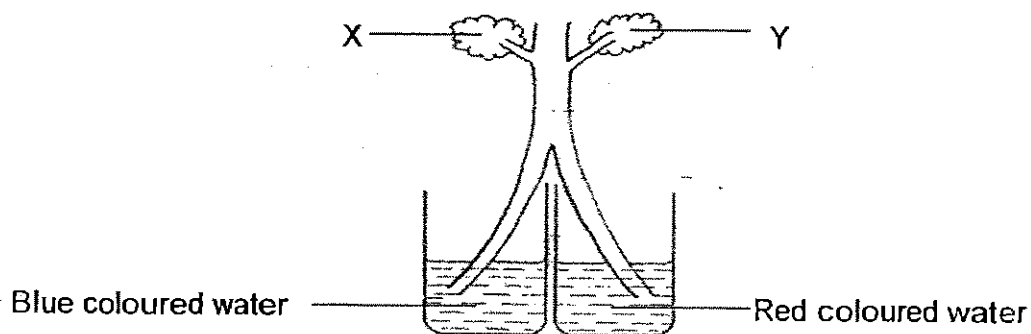
(2) B only

(3) A and C only

(4) B and C only

()

15. Mrs Tan set up an experiment as shown below to illustrate the function of stem to her class. She split the celery stalk up to the middle of the stem. Each split part is then placed in a container of coloured water, as shown below. The pupils were to observe the colours of the leaves after three days.

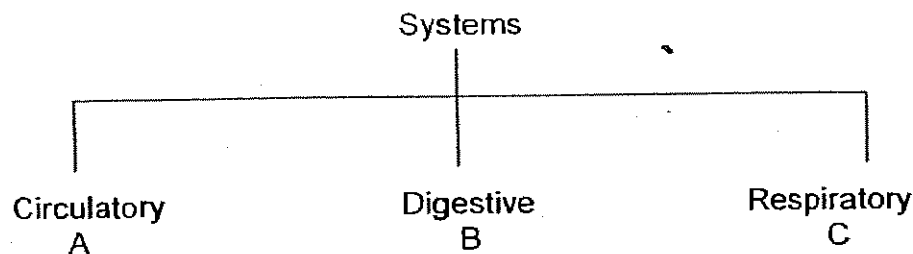


How would the leaves be stained after 3 days ?

	X	Y
(1)	Red	Blue
(2)	Blue	Red
(3)	Red	Red
(4)	Blue	Blue

()

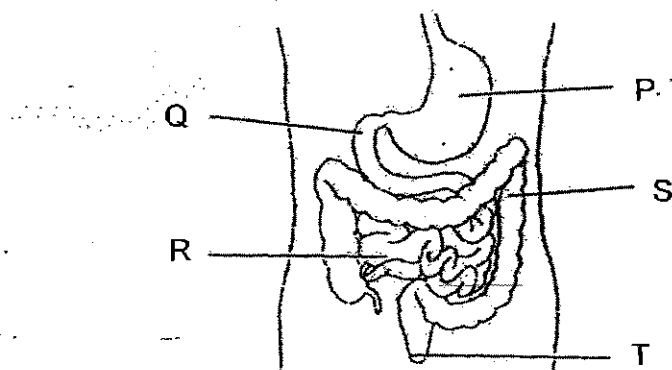
16. Study the classification table below carefully. Which one of the following correctly lists the parts of the human systems shown below?



	A	B	C
(1)	kidneys	windpipe	gullet
(2)	liver	nose	heart
(3)	ribs	small intestine	nose
(4)	heart	stomach	lungs

()

17. The diagram below shows part of the human digestive system.

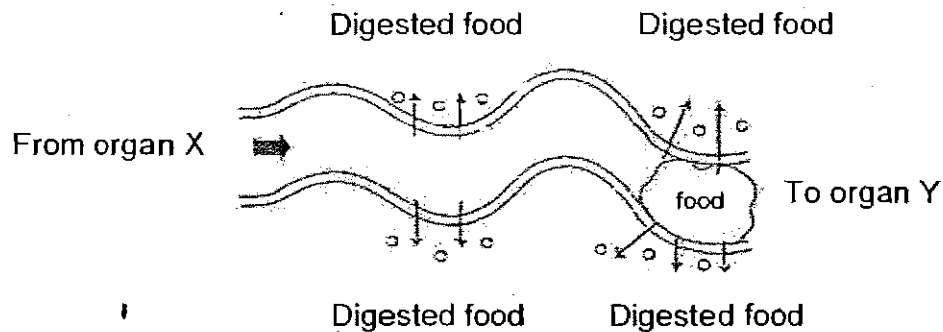


Based-on the diagram above, which statement is incorrect?

- 1) Digestion begins at Part P.
- 2) Water is absorbed in Part S.
- 3) Human waste leaves the body through Part T.
- 4) Part R is the longest part of the digestive system.

()

18. The diagram below shows part of the human digestive system.

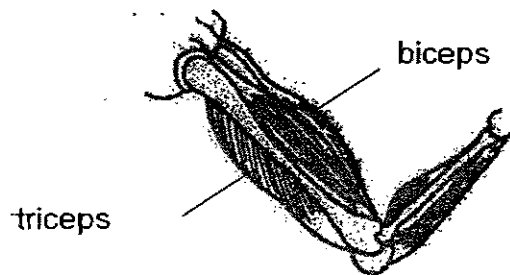


Identify organs X and Y.

	X	Y
(1)	Mouth	Gullet
(2)	Gullet	Small intestine
(3)	Stomach	Large intestine
(4)	Small intestine	Anus

()

19. Look at the picture below and complete the following statement.



For the arm to move to a relaxed position, the biceps must

_____ and the triceps must _____.

	Biceps	Triceps
(1)	Contract	Relax
(2)	Contract	No change
(3)	Relax	Contract
(4)	Relax	No change

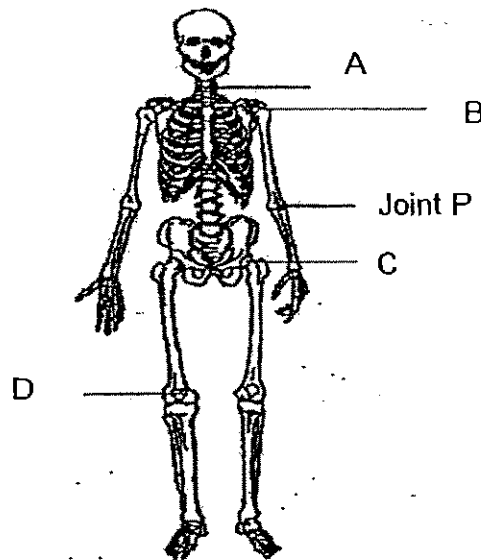
()

20. Which of the actions below does not involve the use of a joint ?

- (1) Jogging
- (2) Throwing a ball
- (3) Blinking your eyes
- (4) Turning your head to the side

()

21. Study the diagram of the human skeleton carefully.



Which one of the following labelled joints moves in the same way as joint P?

- (1) A
- (2) B
- (3) C
- (4) D

()

22. Which of the following are the properties of a mirror ?

- A Hard
- B Smooth
- C Transparent
- D Waterproof

- 1) A and B only
- 2) C and D only
- 3) A, B and D only
- 4) A, B, C and D

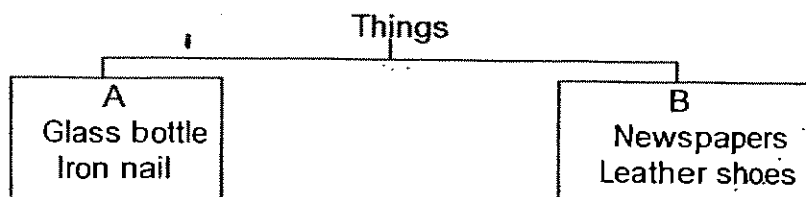
()

23. Which one of the following objects is made of only one material?

- (1) Pencil
- (2) Bicycle
- (3) Computer
- (4) Ice-cream stick

()

24. The following things are grouped according to whether they are made from materials that come from living or non-living things.



Which of the following is the most suitable heading for A and B ?

A	B
1) Never alive	Once alive
2) Soft	Hard
3) Waterproof	Non waterproof
4) Once alive	Never alive

()

25. Which is the least important property to be considered when buying a towel?

- (1) The softness of the towel
- (2) The flexibility of the towel
- (3) The ability to absorb water
- (4) The cartoon print on the towel

()

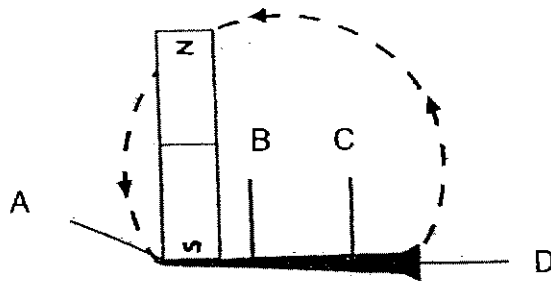
26. Sally wants to leave a note for her mother. With a piece of magnet, she can stick the note onto the _____.

- A mirror
- B wooden door
- C aluminium grille
- D door of the refrigerator

- 1) C only
- 2) D only
- 3) C and D only
- 4) A, B, C and D

()

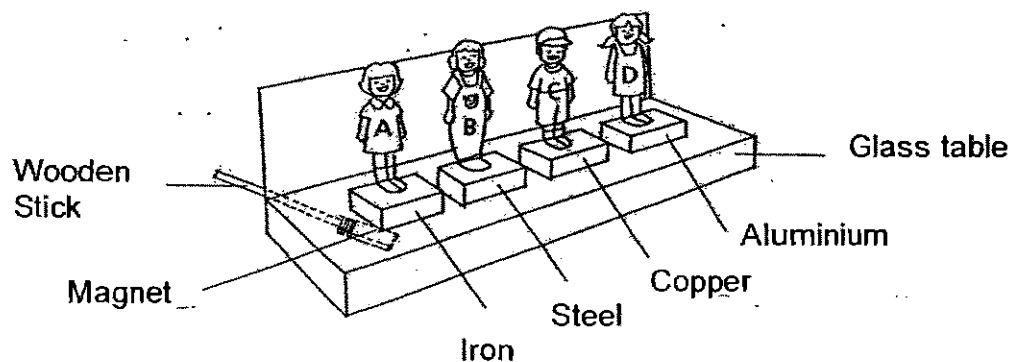
27. A nail was stroked several times as shown below until it became a temporary magnet.



Which end would be the north-seeking pole?

- 1) A 2) B
3) C 4) D ()

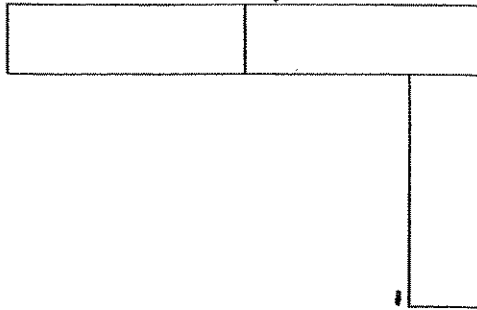
28. Irene attached a paper doll on each of the four pieces of metals ; iron, steel, copper and aluminium. Then she put the four dolls on the glass table as shown below.



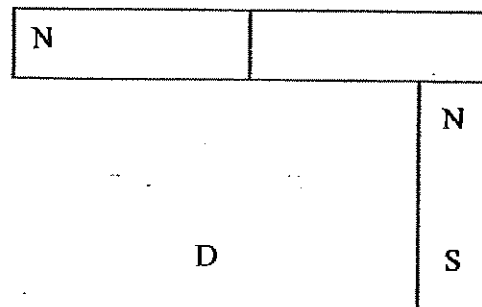
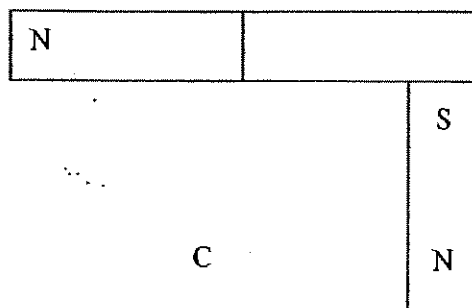
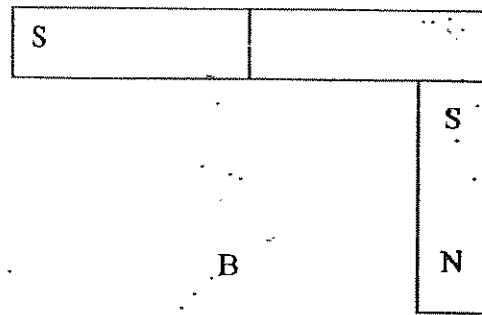
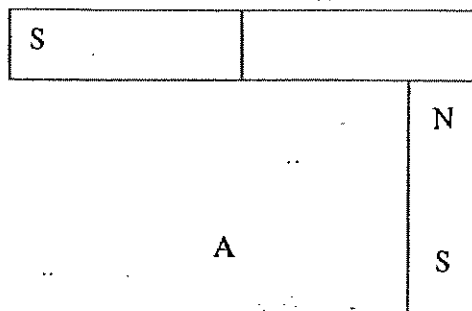
She used a string to tie a strong magnet to one end of a wooden stick. Then she placed the magnetic end of the stick under the table to try and move the dolls. Which dolls could Irene move?

- (1) A and B only (2) C and D only
(3) A, B and C only (4) A, B, C and D ()

29. Three magnets are joined together as shown in the picture below.



Which of the following diagrams show the correct arrangement of their poles?

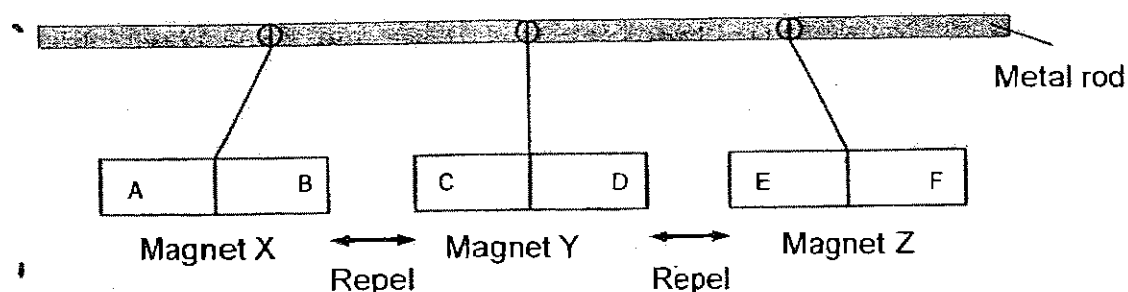


- 1) A and C only
3) A and D only

- 2) B and C only
4) B and D only

()

30. 3 similar bar magnets, X, Y and Z, were hung on a metal rod next to one another. The diagram below shows what happened to the magnets. The letters A, B, C, D, E and F represent the poles of magnets X, Y and Z.



Which set in the table below shows the possible arrangement of the poles of Magnets X and Z ?

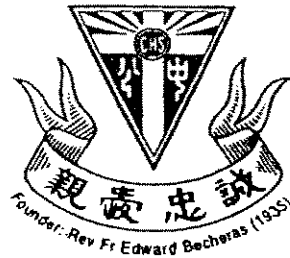
	Magnet X	Magnet Z
A	S N	S N
B	N S	S N
C	N S	N S
D	S N	N S

- 1) A and B only
3) A and C only

- 2) B and D only
4) C and D only

()

End of section A



**CATHOLIC HIGH SCHOOL
PRIMARY THREE
END-OF-YEAR EXAMINATION, 2007**

SCIENCE

Name: _____

Class : Primary 3 _____

Date : 29 October 2007

BOOKLET B

16 Questions
40 Marks

Total Time for Booklets A & B: 1 hour 30 minutes

Instructions to Candidates

Follow all instructions carefully.
Answer all questions.

Parent's Signature: _____

Date: _____

Score	
Section A	60
Section B	40
Total	100

Section B : Open-Ended Questions (40 marks)

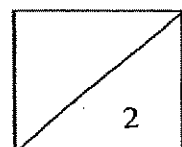
Read the following questions carefully and write your answers in the space provided. The maximum marks that can be awarded is shown at the end of each question or part-question.

31. The figure below shows a mimosa plant.

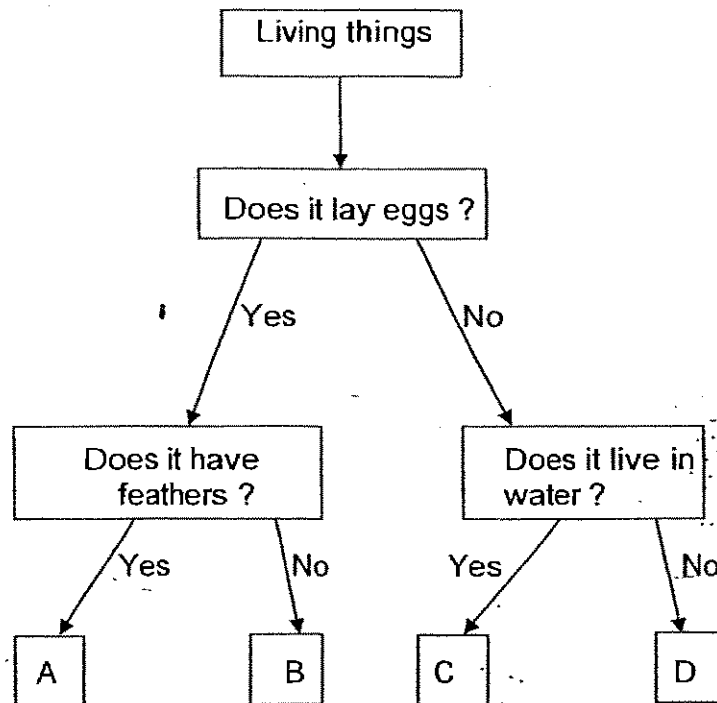


- a) What will happen to the mimosa plant when you touch its leaves? [1]

- b) This tells us that plants are able to _____ to changes around them. [1]



32. Study the flow chart below.



a) Based on the flow chart above, match the following animals to the correct letter. [2]

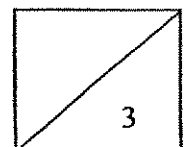
i) Turtle _____

ii) Parrot _____

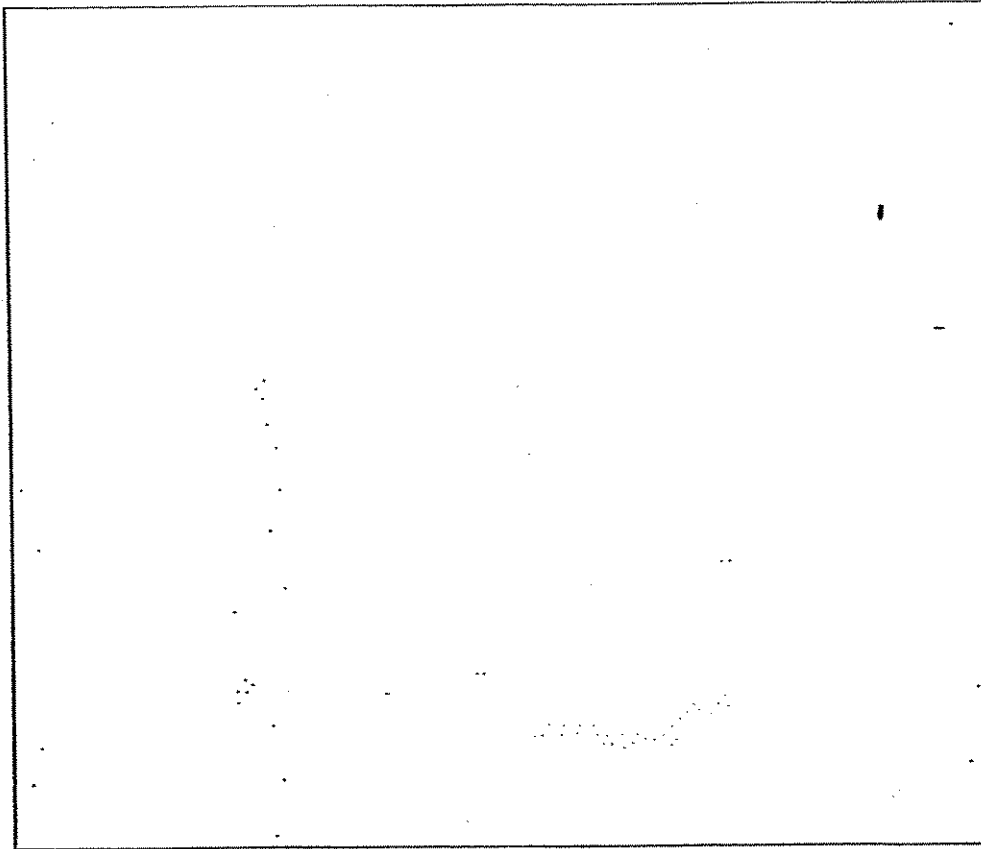
iii) Giraffe _____

iv) Guppy _____

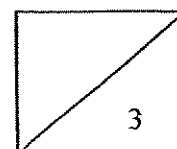
b) Name another animal which can be grouped in C. [1]



33. a) In the box below, draw a simple diagram to show the life cycle of a garlic bulb. [2]



- b) Name another plant that has the same life cycle as the above. [1]



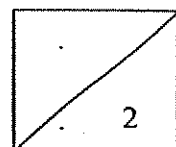
34. Some characteristics from the parents are passed on to their children. When Jun Wei shows his family photo to his teacher and classmates, they make a comment below.

Jun Wei has his father's eyes and mother's hair.

Study the characteristics of Jun Wei's parents and write down the characteristics that are passed on to him.

[2]

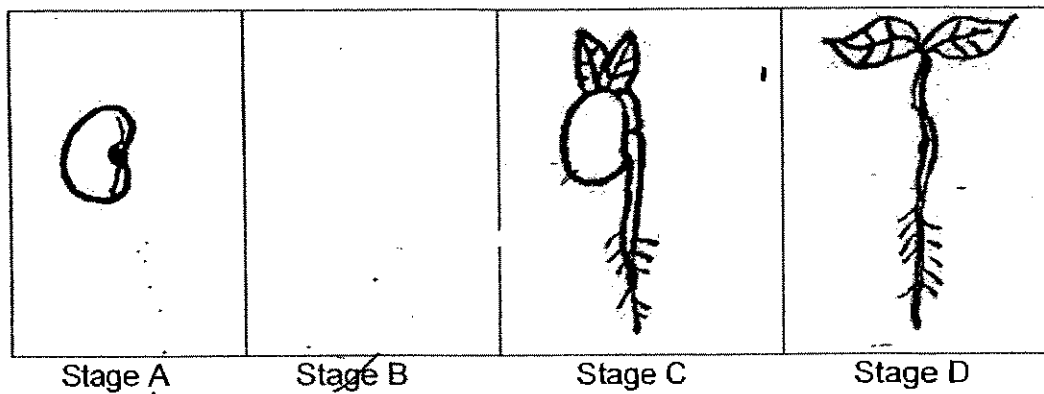
	Father	Mother	Jun Wei
Eyes	brown	blue	a)
Hair	straight	curly	b)



35. The pictures below show the different stages of the growth of a bean seed.

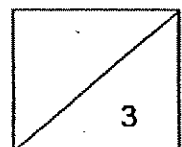
a) Draw the missing stage in the box provided.

[2]

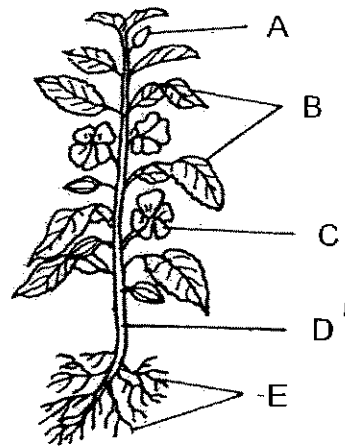


(b) At which stage does it need sunlight ?

[1]



36. Look at the picture of the plant below.



(a) Part _____ holds the plant firmly to the ground. [½]

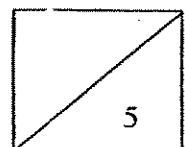
(b) Part _____ makes food for the plant. [½]

(c) What would happen if parts A and C are missing from the plant? [1]

(d) What does part E absorb? [1]

37. Write T for true or F for false for the statements below. [2]

	Statements	T or F
a	Bones can move without muscles.	
b	Muscles can be found in organs such as our heart and gullet.	
c	Digestive juices are found in the mouth, stomach and small intestine.	
d	Our bones can move at the joints but they cannot move by themselves.	

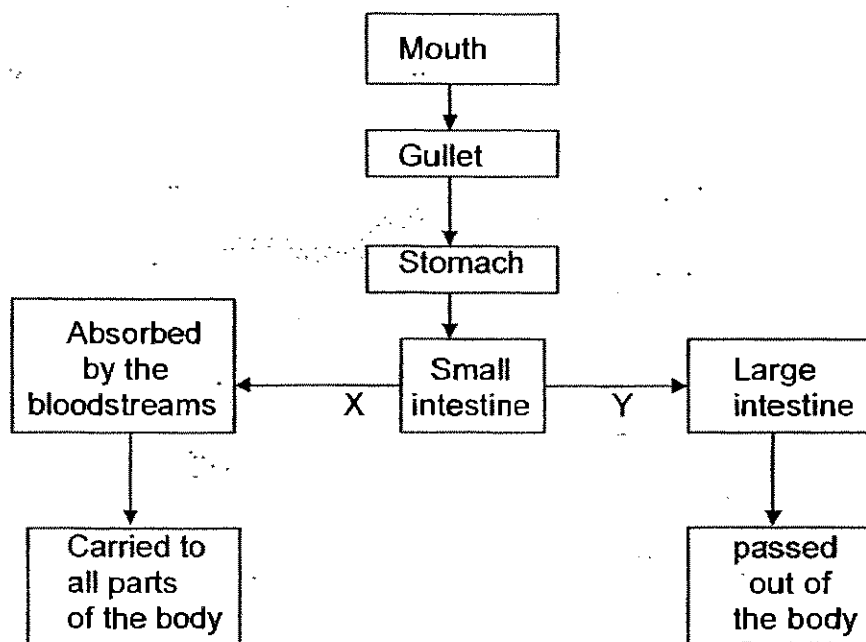


38. Our teeth help to break down food into smaller pieces in the digestive process.

a) Why is it important for us to chew our food and break them into smaller pieces before swallowing? [1]

b) A liquid in your mouth helps to digest the food further and makes it soft. What is this liquid called? [1]

39. Study the flow chart below carefully.

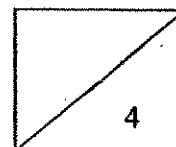


What do X and Y represent ?

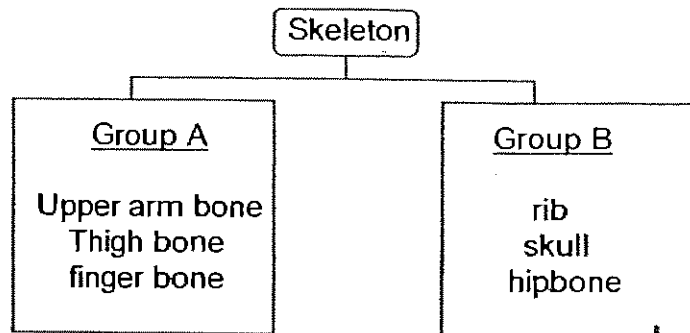
[2]

a) X _____ food

b) Y _____ food



40. Some bones in the skeleton are put into two groups as shown below.



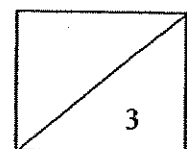
- (a) Give suitable headings for Groups A and B [2]

Group A _____

Group B _____

- (b) For each of the following joints, give one example of where it can be found in your body. [1]

	Joint	Where it can be found
(i)	Hinge	
(ii)	Ball and Socket	



41. Joel wants to wrap a hamper for his teacher. He wants the contents to be seen without the teacher having to unwrap it. He is given the following items to choose from.

Cardboard Newspaper Tracing paper Aluminium foil Clear plastic sheet
--

- a) Which is the most suitable item he should use? [1]

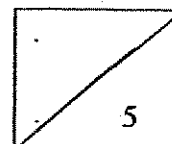
- b) Give a reason for your choice in (a). [1]

42. Study the characteristics of Materials A, B, C and D in the table below.

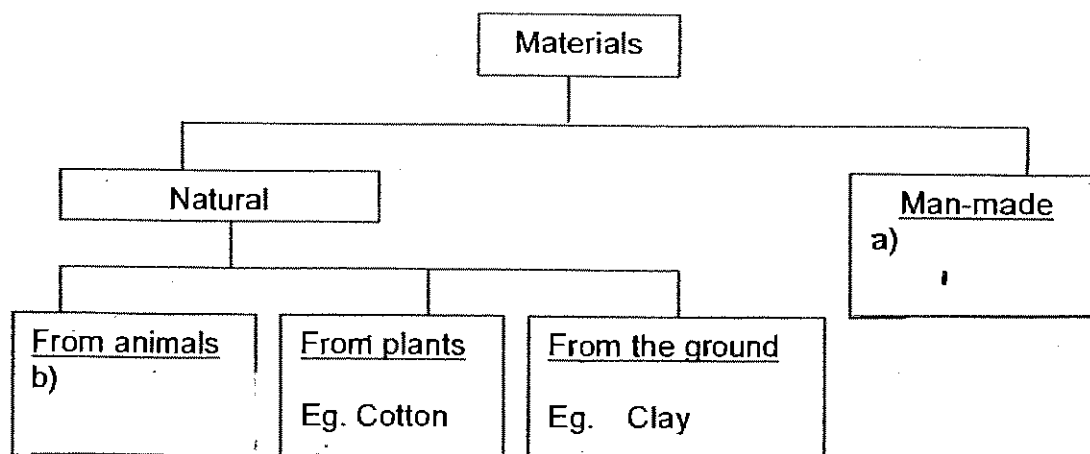
Materials	Hard		Can float		Breaks when dropped	
	Yes	No	Yes	No	Yes	No
A	✓			✓	✓	
B	✓		✓		✓	
C	✓		✓			✓
D		✓	✓		✓	

- a) Based on the table above, describe material C. [2]

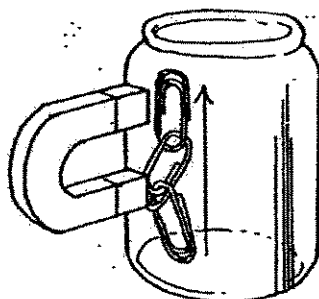
- b) Give an example of material C. [1]



43. Complete the classification chart below with suitable words. [2]

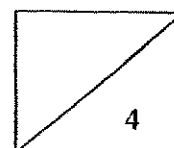


44. Shaun put some paperclips inside a glass jar, an aluminium can and an iron can. Then he placed a magnet on the outside of each container to try to slide the paperclips up the container as shown below. He recorded the results in the table below.



Types of container	Can he slide the paper clips up?
Glass jar	Yes
Iron can	No
Aluminium can	Yes

What conclusion can he form based on the results of the experiment? [2]



45. Susan magnetized several iron nails using the 'Stroking' method. The number of strokes applied to the nails are recorded in the table below.

Nail	Number of strokes
P	25
Q	50
R	75
S	100

a) Which iron nail is the strongest? Why?

[2]

b) Write down one way to demagnetize the iron nails.

[1]

46. Ming Hua had three bars; a magnet, an iron bar and a copper bar. He conducted an experiment and recorded the following findings.

- Bar B attracted Bar A
- Bar B was repelled by a magnet
- Bar B showed no reaction to Bar C

Identify the magnet, the iron bar and the copper bar.

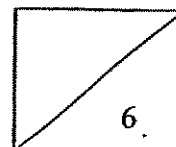
[3]

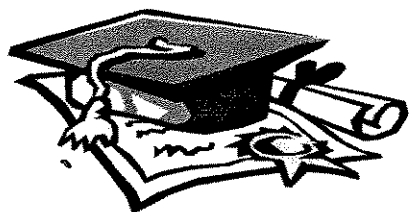
Bar A _____

Bar B _____

Bar C _____

End of paper





ANSWER SHEET

CATHOLIC HIGH PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007
SEMESTRAL ASSESSMENT (2)

1. 4

2. 1

3. 2

4. 3

5. 3

6. 1

7. 3

8. 2

9. 4

10. 3

11. 3

12. 3

13. 2

14. 3

15. 2

16. 4

17. 1

18. 3

19. 3

20. 3

21. 4

22. 3

23. 4

24. 1

25. 4

26. 2

27. 4

28. 1

29. 4

30. 3

31) a) Its leaves will close when I
couth the leaves.
b) respond.

32) a) B, A, D, C
b) Shark

33) a)
b) It is the onion.

34) a) brown b) curly

35) a) B b) Stage D

36) a) E b) B
c) It will not reproduce Part E
dissolved mineral and absorb
water from the soil.
d) Part E absorb mineral and water
from the soil.

37) a) F b) T c) T d) T

38)a) It is important to chew our food before swallowing to prevent choking.

b) The liquid is called saliva.

39)a) Digested

b) Undigested

40)a) A: Straight bone. B: Curved bone.

b) i) Elbow. ii) Shoulder.

41)a) The most suitable item is clear plastic sheet.

b) Clear plastic sheet is transparent.

42)a) Material C is hard, floats in water, and it does not break when floated.

b) It can float.

43)a) Nylon.

b) Silk

44) Magnetism can pass through glass and aluminium but not iron.

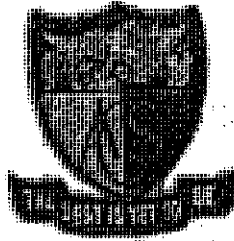
45)a) Nail S is the strongest as she strokes Nails many times.

b) She could heat it over a fire.

46)A: iron

B: magnet

C: copper.



Anglo-Chinese School (Primary)

P3 SCIENCE 2007

END-OF-YEAR EXAMINATION

BOOKLET A

Name: _____ () Class: Primary 3 ____

Date: 1 November 2007

Duration of paper: 1h 15 min

Parent's/Guardian's signature

**THIS BOOKLET CONTAINS 13 PAGES.
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.**

PART I

For each of the following questions from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade the correct answer on the Optical Answer Sheet.

[15 x 2 marks]

1. Which of the following are living things?

- A. Moss
- B. Spider
- C. Leather
- D. Mushroom

- (1) A and D only
- (2) B and C only
- (3) A, B and D only
- (4) A, B, C and D

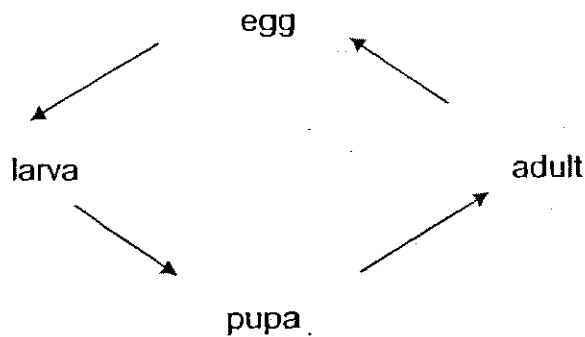
2. The table below gives some information about animals X, Y and Z.

	Animals		
	X	Y	Z
Is it a mammal?	Yes	Yes	No
Does it lay eggs?	No	Yes	Yes

Which of the animals in the table below correctly represents animal X, Y and Z respectively?

	X	Y	Z
(1)	giraffe	dolphin	duck
(2)	goat	spiny anteater	dragonfly
(3)	penguin	platypus	frog
(4)	pig	ostrich	goldfish

3. Which one of the following animals has the life cycle shown below?



- (1) Frog
- (2) Chicken
- (3) Butterfly
- (4) Cockroach

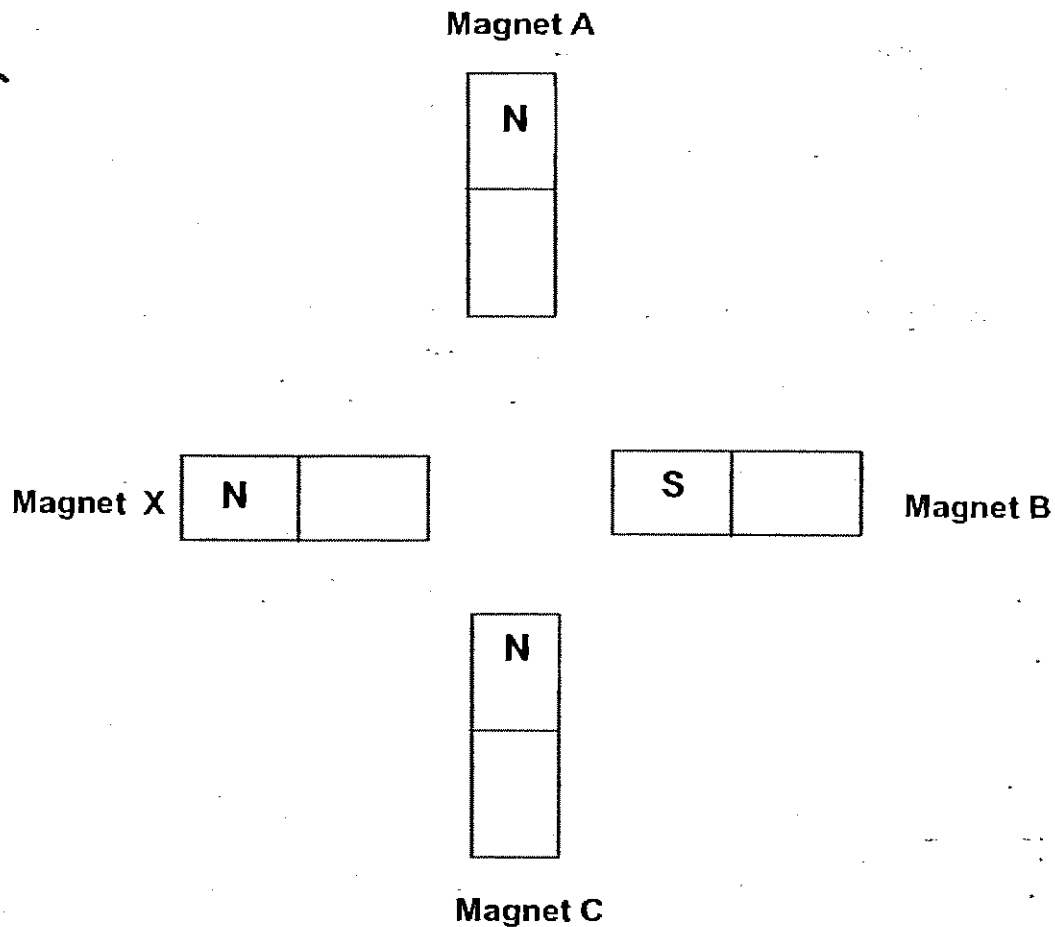
4. The statements below describe the observations made as a string bean plant grows from a seed.

- A. Fruits appear
- B. Roots appear
- C. Shoot appears
- D. Leaves appear
- E. Flowers appear

Which one of the following shows the correct order of growth?

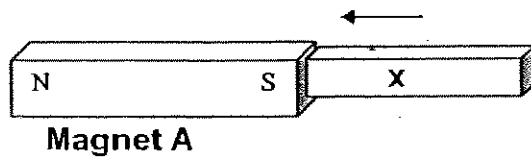
- (1) A → B → E → C → D
- (2) C → B → E → D → A
- (3) D → A → B → C → E
- (4) B → C → D → E → A

5. Four bar magnets are placed in the positions as shown below. Which magnet(s) will be attracted to magnet X?



- (1) Magnet A only
- (2) Magnet C only
- (3) Magnets A and B only
- (4) Magnets B and C only

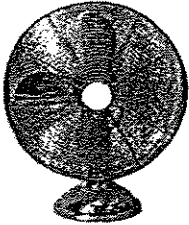
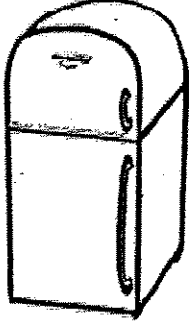
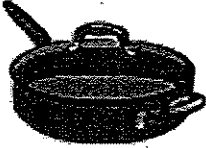

6. The diagram below shows an object 'X' being attracted to magnet A.



Which one of the following materials could object 'X' be made of?

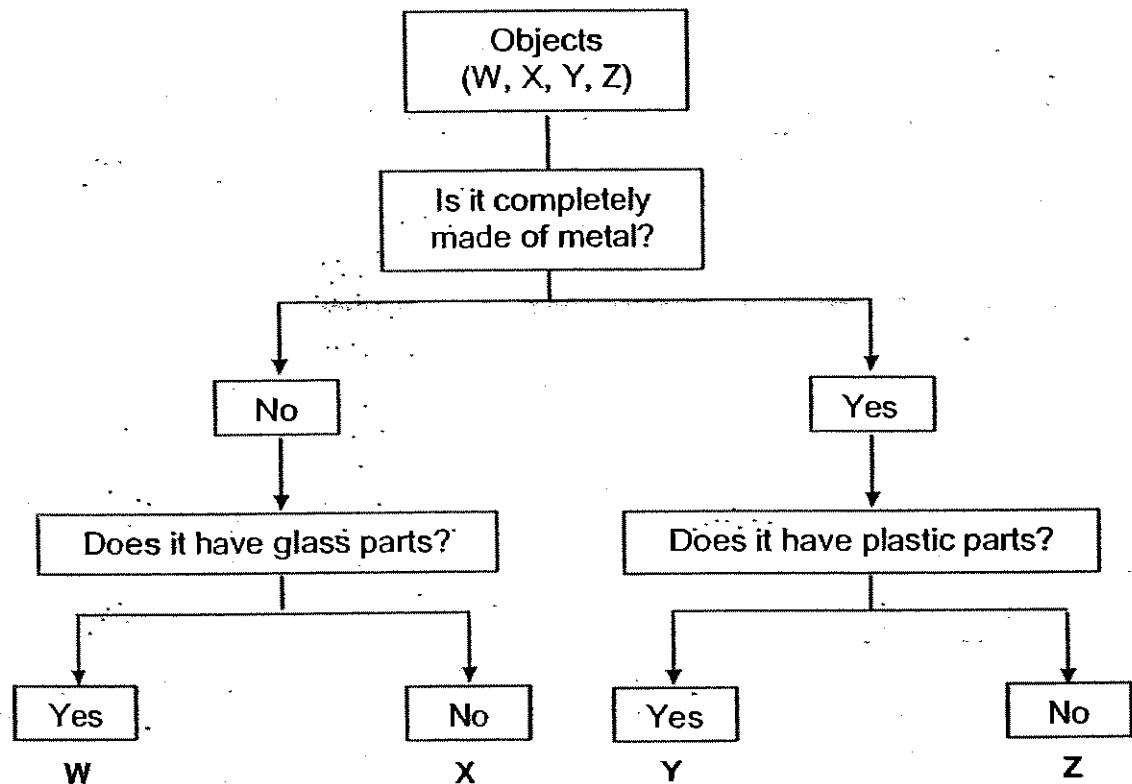
- (1) Iron
- (2) Silver
- (3) Copper
- (4) Aluminum

7. Which of these objects make use of magnets to function properly?

<p>(A)</p>  <p>a fan</p>	<p>(B)</p>  <p>a refrigerator</p>
<p>(C)</p>  <p>a cooking pan</p>	<p>(D)</p>  <p>a computer</p>

- (1) A and C only
- (2) A and D only
- (3) A, B and D only
- (4) A, B, C and D.

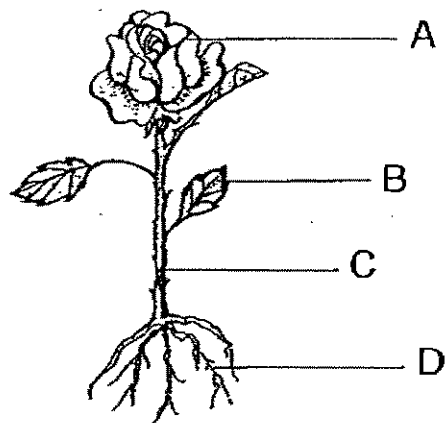
8. The classification chart below shows how a group of 4 objects (W, X, Y and Z) are grouped according to certain characteristics.



Which one of the following most likely represents a car?

- 1) W
- 2) X
- 3) Y
- 4) Z

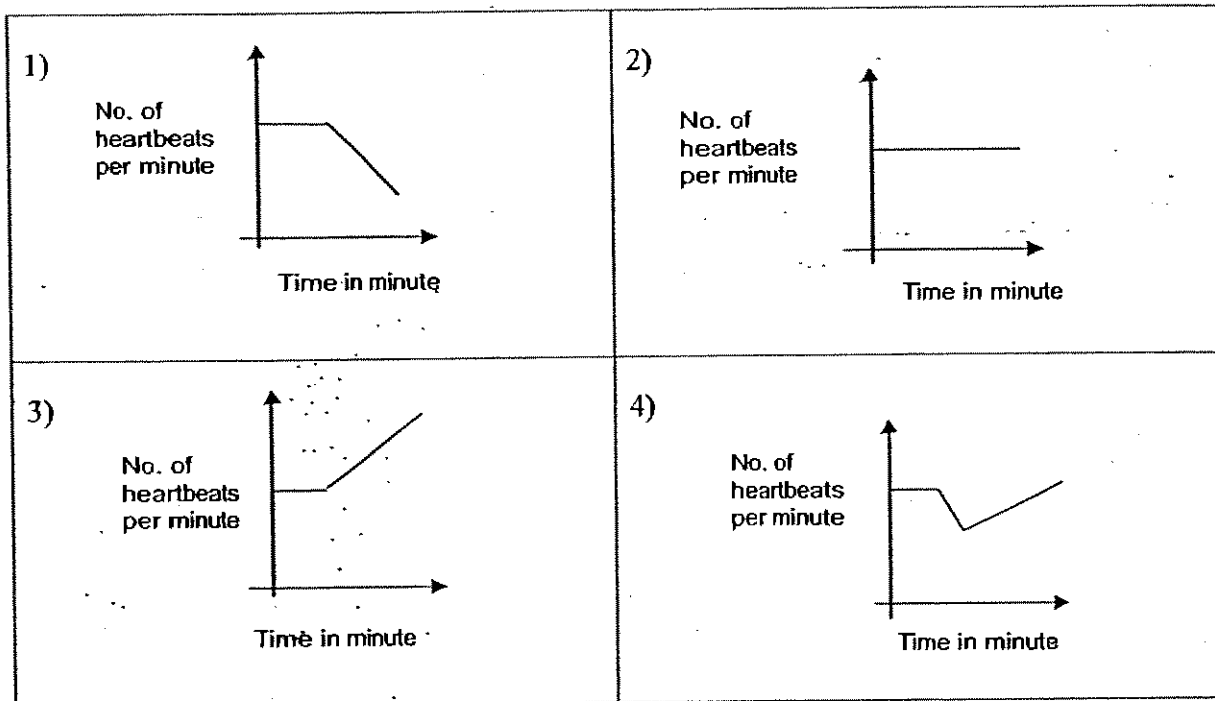
9. The diagram below shows a rose plant.



In which part of the rose plant (A, B, C or D) does photosynthesis take place?

- (1) A
- (2) B
- (3) C
- (4) D

10. In a 100-metre race which Raj took part in, he sped until he crossed the finishing line. Which one of the following graphs below shows the change in his heartbeat during the race?



11. The functions of three body systems (X, Y and Z) are stated below.

System X : Transports food, water, oxygen and waste within the body

System Y : Breaks down food into simpler substances for the body to absorb

System Z : Takes in oxygen and gives out carbon dioxide

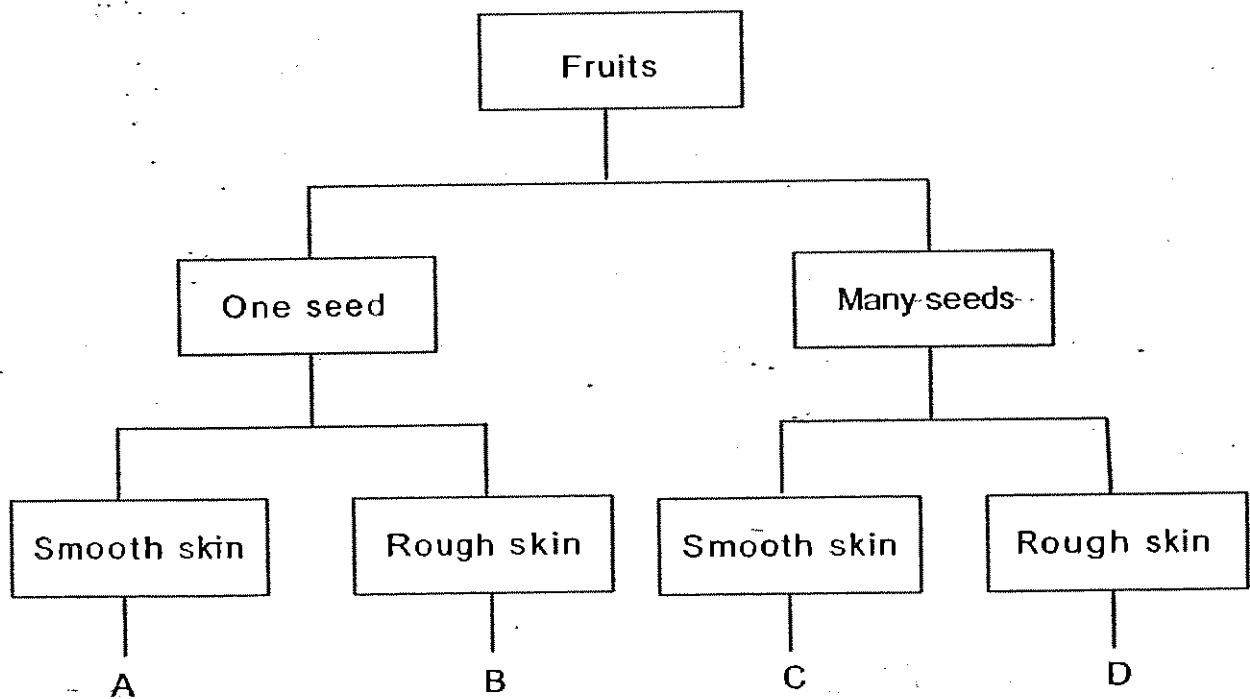
Which one of the following is correct?

	System X	System Y	System Z
1.	Digestive	Respiratory	Blood Circulatory
2.	Blood Circulatory	Digestive	Respiratory
3.	Respiratory	Blood Circulatory	Digestive
4.	Blood Circulatory	Respiratory	Digestive

12. The table below gives some information about two fruits, W and X, based on two characteristics. A tick (\checkmark) indicates the presence of the characteristic in each fruit.

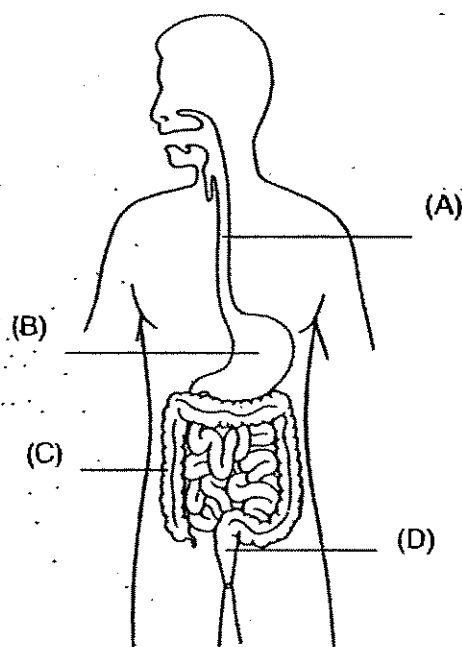
Fruits \ Characteristics	W	X
Many seeds	\checkmark	\checkmark
Smooth skin		\checkmark

Using the information above, which letters (A, B, C or D) correctly represent the fruits W and X respectively in the classification table shown below?



	Fruit W	Fruit X
(1)	B	A
(2)	C	B
(3)	D	C
(4)	A	D

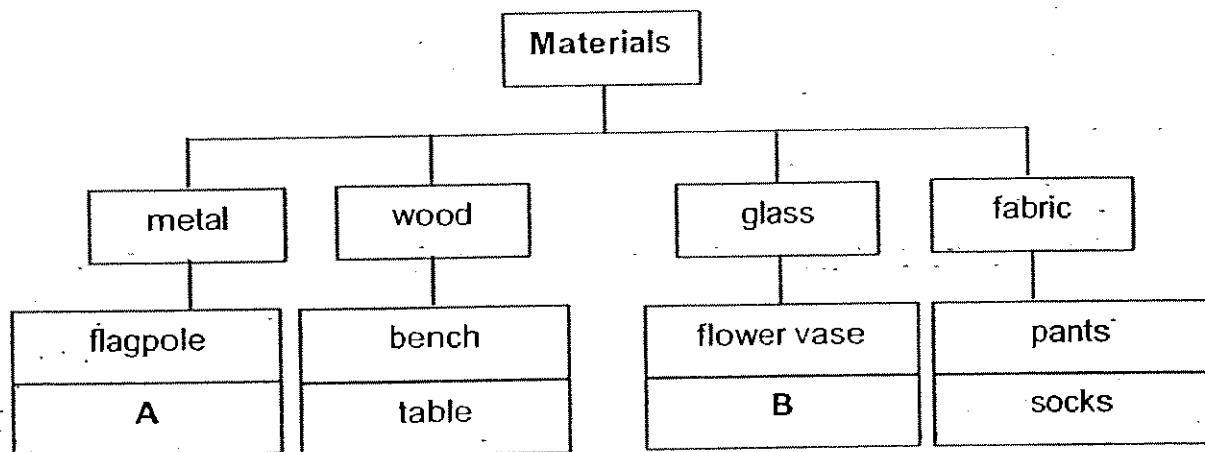
13. Yiwen studied the diagram of the digestive system as shown below. She made a table to list the functions of the parts labelled A, B, C and D.



Which part of the digestive system (A, B, C or D) has an incorrect function listed next to it?

	Parts of the digestive system	Functions
(1)	A	Muscular tube which pushes the food that has been swallowed into the stomach
(2)	B	Stores digested food
(3)	C	Removes water from undigested food
(4)	D	Stores undigested food

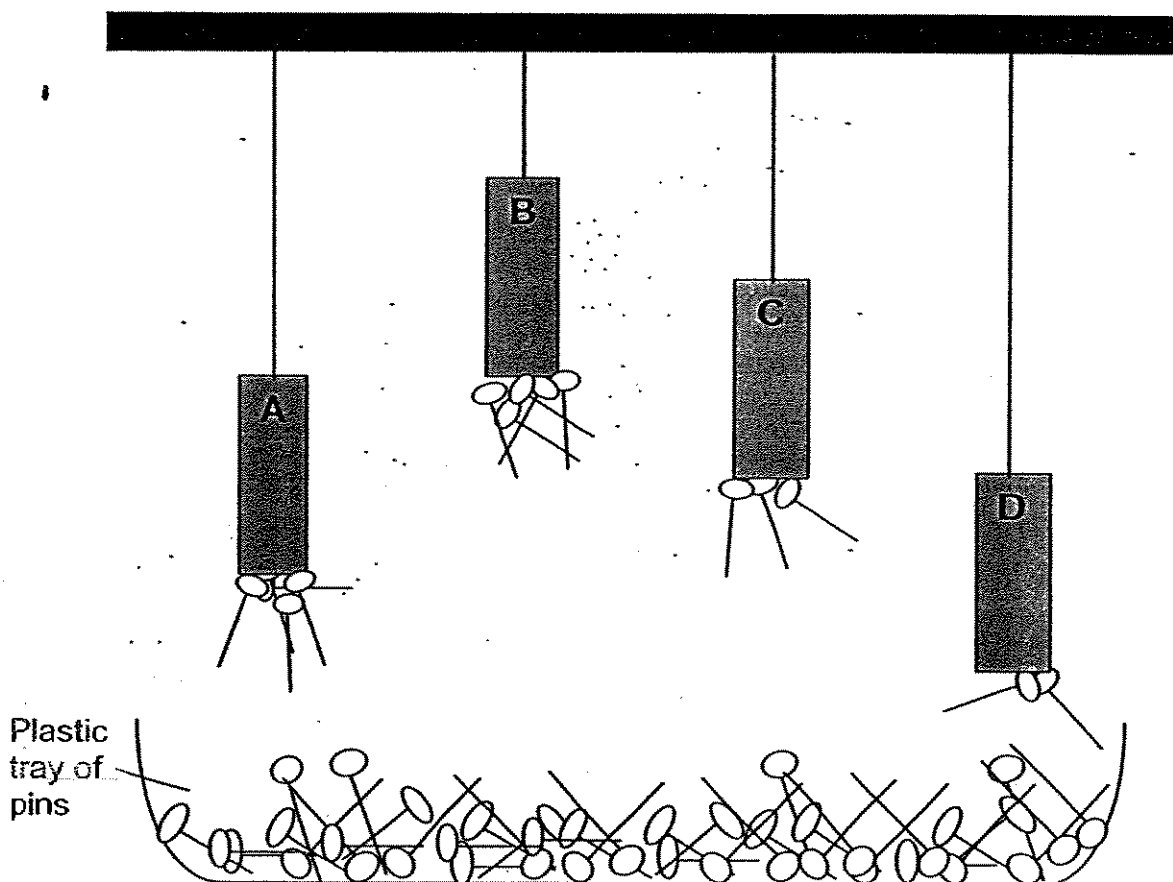
14. Study the classification table below. It shows how some objects have been grouped according to what material it is made up of.



Based on the above classification, what are objects A and B most likely to be?

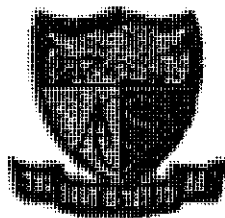
	A	B
1.	cup	eraser
2.	window grille	window pane
3.	chair	shirt
4.	mat	mirror

15. Four similar-sized magnets, A, B, C and D are hung from strings of different lengths as shown below. A plastic tray of iron pins was placed below the magnets and a different number of pins are observed to be attracted to the magnets.



Which magnet is most likely the strongest?

- (1) A
- (2) B
- (3) C
- (4) D

**Anglo-Chinese School (Primary)****P3 SCIENCE 2007****END-OF-YEAR EXAMINATION****BOOKLET B**

Name: _____ () Class: Primary 3 ____

Date: 1 November 2007

Duration of paper: 1h 15 min

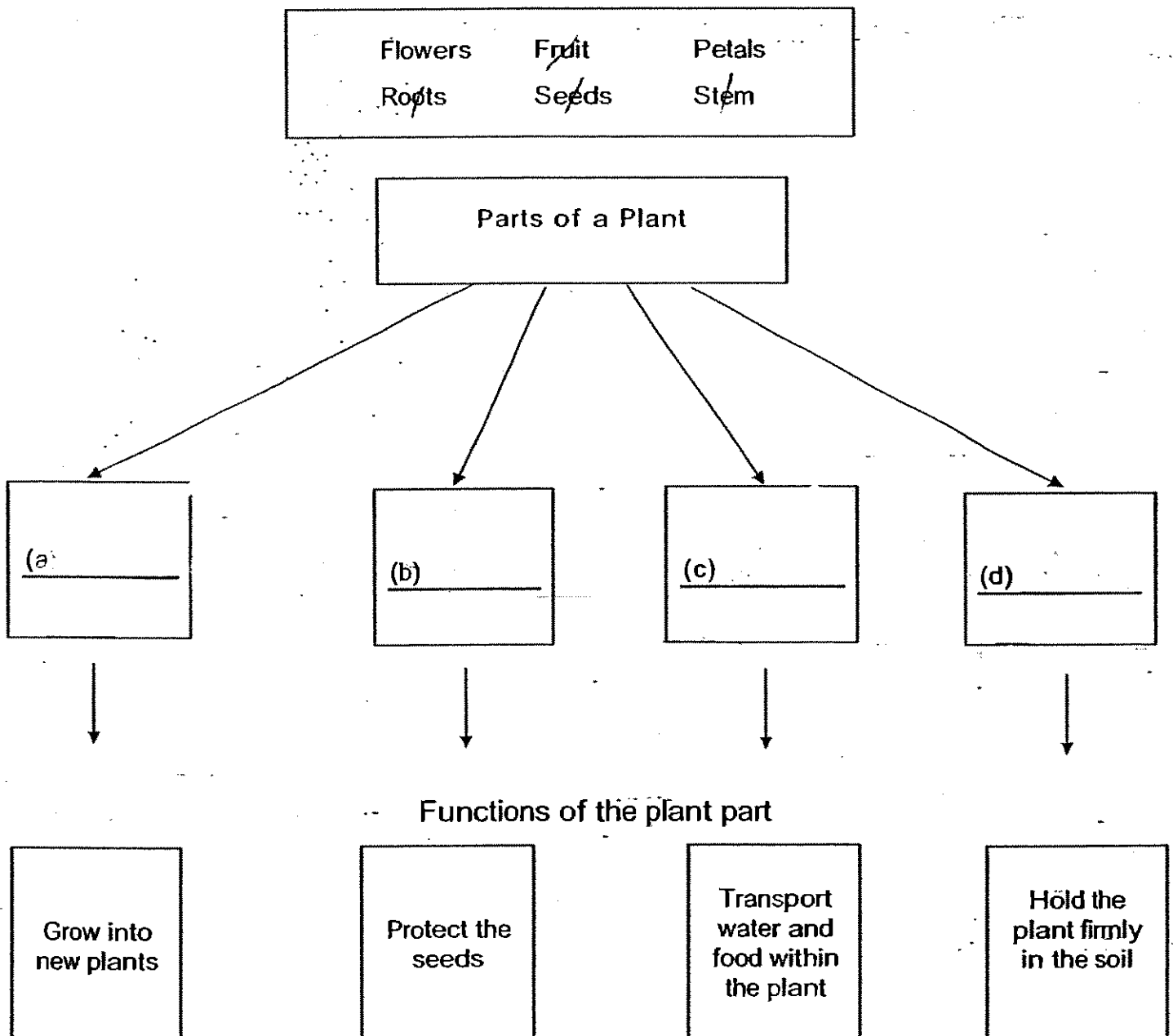
	Maximum Marks	Marks Obtained
Section A / Booklet A	30	
Section B / Booklet B	20	
Total	50	

THIS BOOKLET CONTAINS 9 PAGES.**DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.****FOLLOW ALL INSTRUCTIONS CAREFULLY.**

PART II

Read each question carefully and write your answer(s) in the space(s) provided.
(20 marks)

16. Study the classification chart below. Fill in the four blanks (a, b, c, d) using the given helping words. Each word can only be used once. [2]



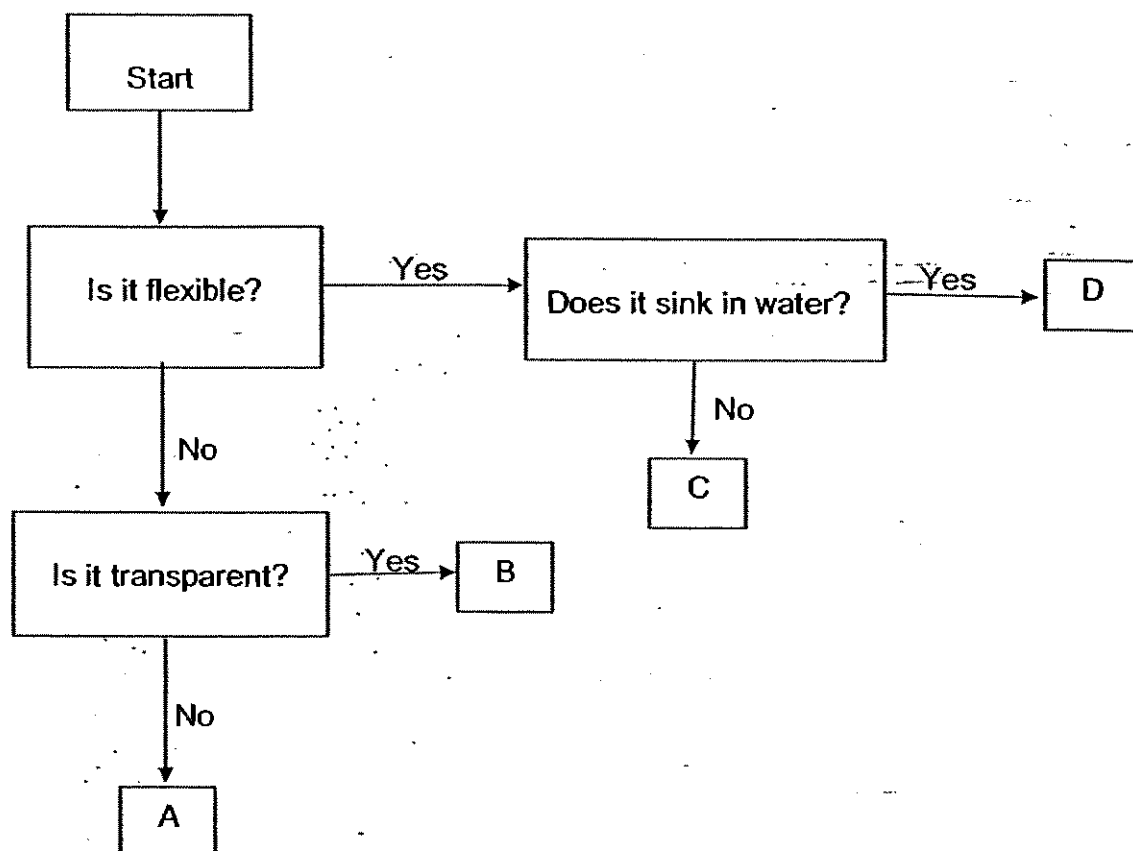
17. Jack planted 5 similar plants in 5 pots named A, B, C, D and E. The pots contained the same type of soil and he watered each of them with the same amount of water everyday. Each day at 8 am, he put the 5 pots of plants in the same area under the sun for different lengths of time. He did this for 4 weeks. On the 28th day, he measured their heights and recorded his observations in the table below.

	Pot A	Pot B	Pot C	Pot D	Pot E
Number of hours in the sun each day	5	6	7	8	9
Height in cm	5	10	15	15	15

- a) From the table above, what is the least number of hours the plants need each day to make sure that it grows to its maximum height? [1]

- b) Why is sunlight important to plants? [1]

18. Study the flowchart below.



Using the given helping words as shown below, identify the objects A, B, C and D correctly. Each word can only be used once. [2]

Glass rod	Brick	Eraser	Plastic ruler
-----------	-------	--------	---------------

A	
B	
C	
D	

19. Pete was at the seaside. He observed that it was a hot day so he decided to go for a swim. The water was cold. All of a sudden, he observed that dark clouds had covered the sky. It was time to go home.

Pete had used some of his senses in making the above observations. In the table below, tick (☒) the senses he had used to make the above observations. [2]

Senses	Senses used by Pete
Hearing	
Sight	
Smell	
Taste	
Touch	

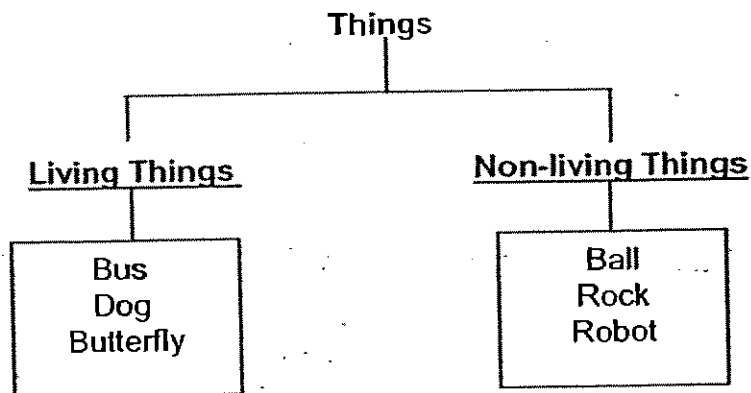
20. A boy was asked to carry out the following 4 activities on 4 different occasions:

- Activity A – Watching a documentary on television
- Activity B – Walking his dog
- Activity C – Sleeping on his bed
- Activity D – Skipping activity using his skipping rope

His breathing rates were measured and recorded in the table below. Based on the information given, indicate the 4 different activities using the letters A, B, C and D in the table below. Each letter can only be used once. [2]

Most Likely Activity	Number of breathes every minute (Breathing rate)
	12
	18
	30
	45

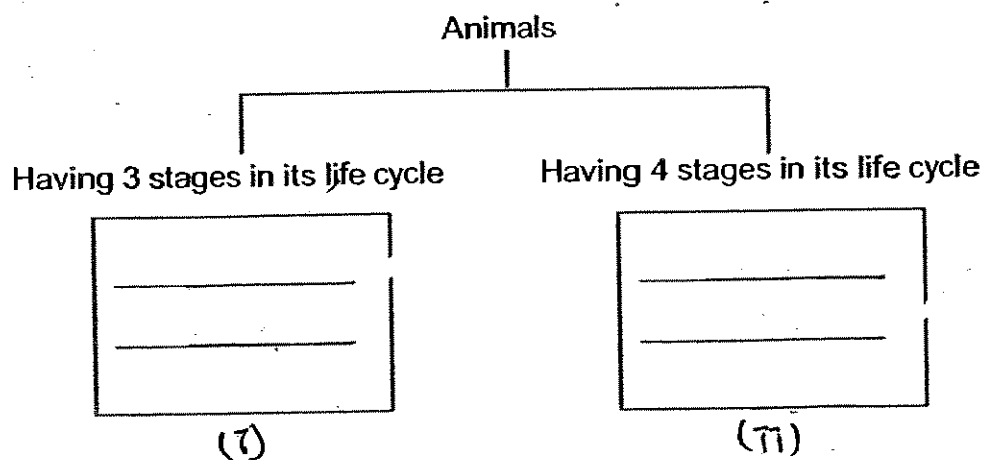
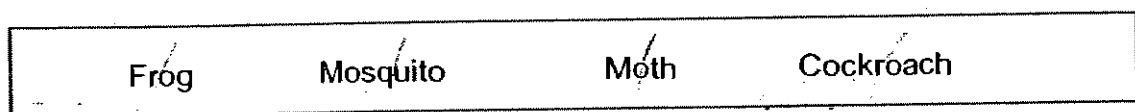
21. Joshua grouped the following things as shown in the classification table below.



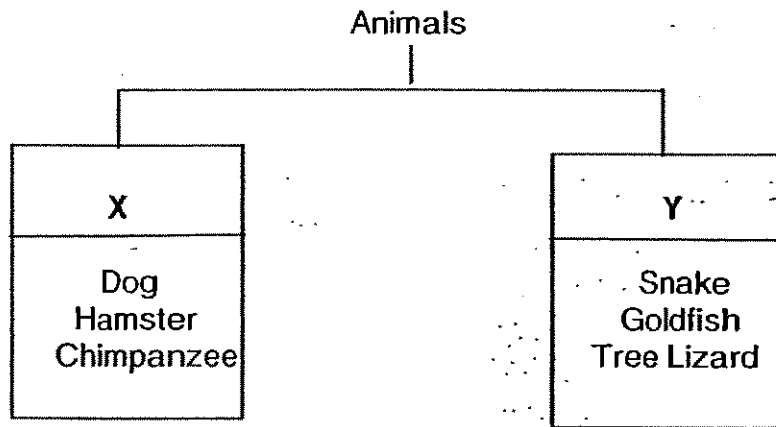
a) Which object was classified wrongly? [1]

b) Give a reason to explain your answer in (a), [1]

22. Classify the following animals into the groups based on their lifecycle. [2]



23. Study the classification table below. It shows how six animals are grouped according to their method of reproduction.



- (a) Give a suitable heading for

X: _____

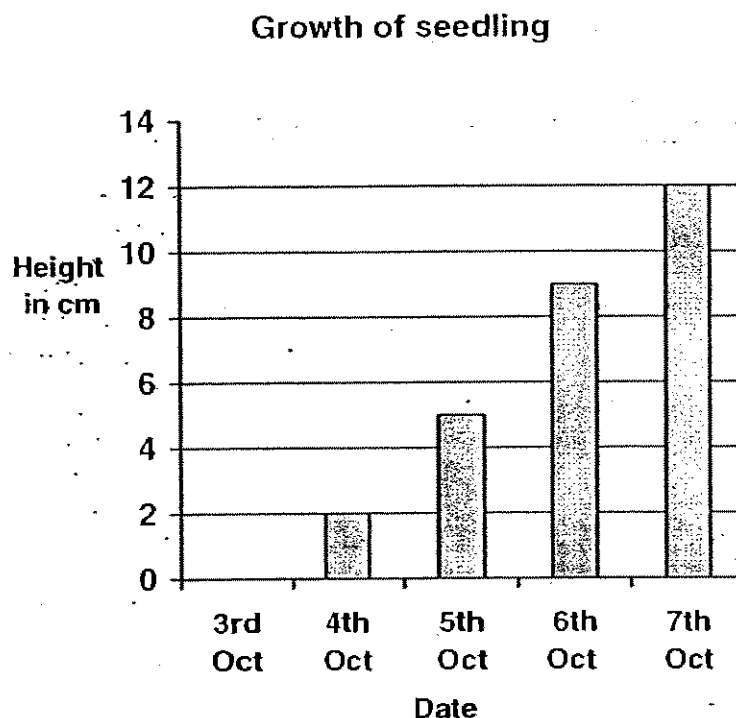
Y: _____

[1]

- (b) In which group should a crocodile be classified under?

[1]

24. Benjamin planted a seed on 2nd October. He watered it every day and observed how it grew. He measured the seedling every day and recorded its growth over 5 days as shown in the graph below.



- a) What is the increase in the height of the seedling from 4th to 5th October?

_____ [1]

- b) The greatest growth of the seedling was recorded during the period from

the _____ Oct to _____ Oct. [1]

25. Look at the picture of a bar magnet shown below.
The bar magnet was placed in a plastic tray of paper clips and was lifted soon after. The number of paper clips attracted to the magnet at the 4 positions were observed and recorded in the table below.



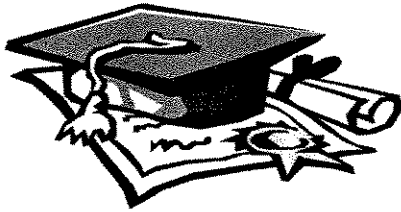
A bar magnet

Position	Number of paper clips attracted
A	8 to 10
B	4 to 6
C	4 to 6
D	?

- (a) What is the most likely number of papers clips attracted at position D? [1]

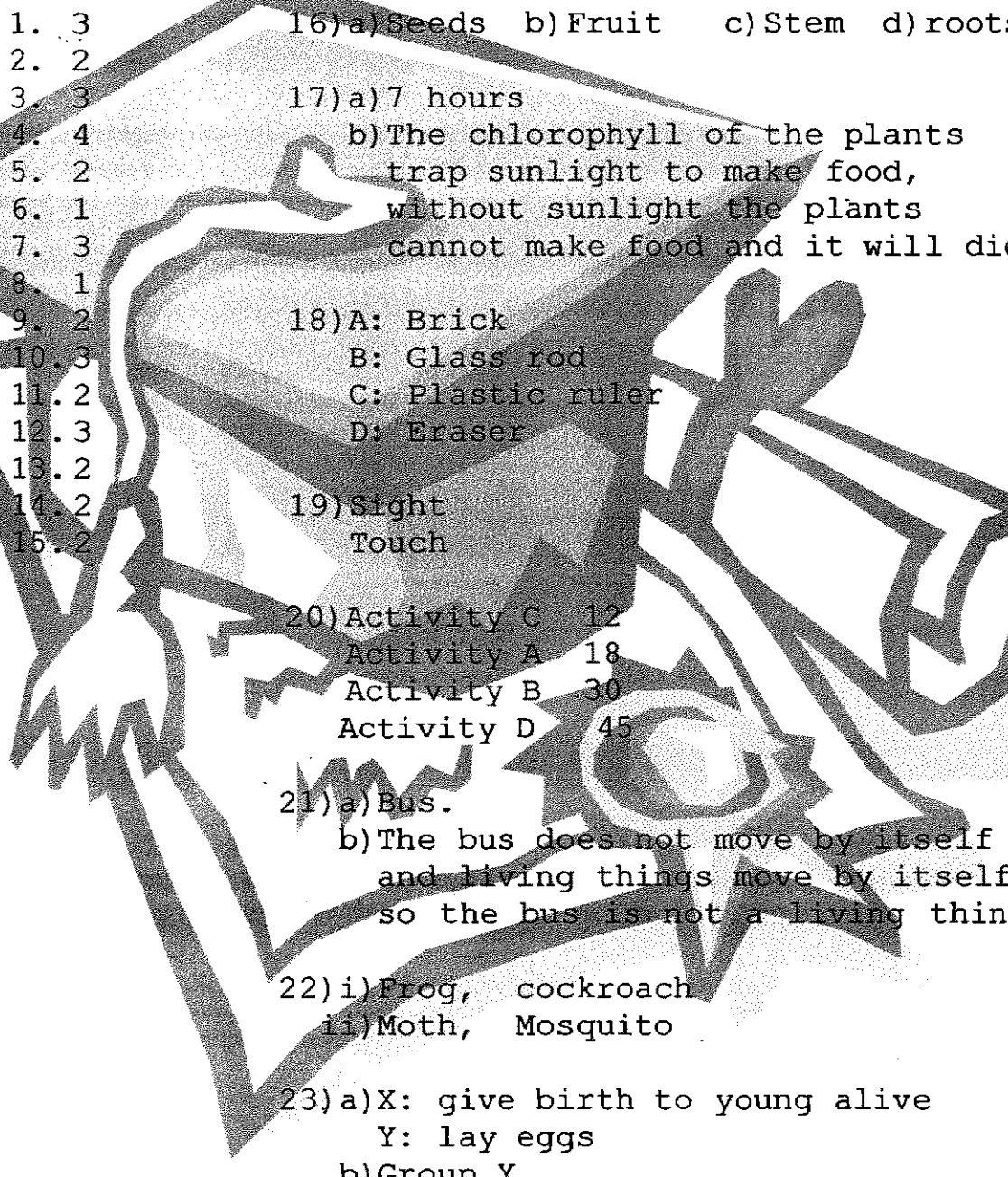
- (b) What do you call the parts of the magnet with the strongest attraction? [1]

~~~ End of Paper ~~~



# ANSWER SHEET

A C S PRIMARY SCHOOL - PRIMARY 3 SCIENCE 2007  
SEMESTRAL ASSESSMENT (2)

- 
1. 3  
2. 2  
3. 3  
4. 4  
5. 2  
6. 1  
7. 3  
8. 1  
9. 2  
10. 3  
11. 2  
12. 3  
13. 2  
14. 2  
15. 2
- 16) a) Seeds b) Fruit c) Stem d) roots
- 17) a) 7 hours  
b) The chlorophyll of the plants trap sunlight to make food, without sunlight the plants cannot make food and it will die
- 18) A: Brick  
B: Glass rod  
C: Plastic ruler  
D: Eraser
- 19) Sight  
Touch
- 20) Activity C 12  
Activity A 18  
Activity B 30  
Activity D 45
- 21) a) Bus.  
b) The bus does not move by itself and living things move by itself so the bus is not a living thing.
- 22) i) Frog, cockroach  
ii) Moth, Mosquito
- 23) a) X: give birth to young alive  
Y: lay eggs  
b) Group Y



24) a) 3cm  
b) 5 , 6

25) a) 8 to 10 paper clips.  
b) poles.

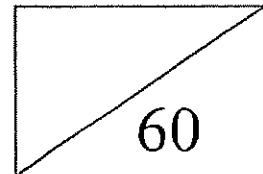
**KONG HWA SCHOOL  
SEMESTRAL ASSESSMENT TWO 2007  
SCIENCE  
PRIMARY 3**

Name: \_\_\_\_\_ (    )

Class: Primary 3/ \_\_\_\_\_

Date : 29 October 2007

**Marks**



Parent's Signature: \_\_\_\_\_

**BOOKLET A**

**30 MULTIPLE CHOICE QUESTIONS**

**60 MARKS**

**Total time for Booklets A and B: 1 h 30 mins**

**DO NOT LOOK AT THE QUESTIONS UNTIL YOU ARE TOLD TO DO SO.**

**FOLLOW ALL INSTRUCTIONS CAREFULLY.**

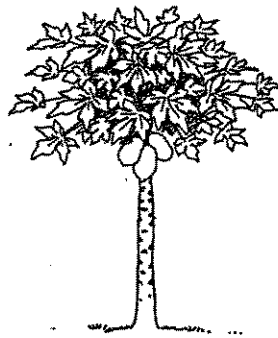
**DO NOT WASTE TIME. IF A QUESTION IS DIFFICULT FOR YOU, GO ON TO THE NEXT ONE.**

**REMEMBER TO ANSWER ALL QUESTIONS.**

**SECTION A : [30 x 2 marks = 60 marks]**

For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.

1. The diagram below shows three things.



Papaya tree



Girl



Bat

Which of the following statements are true about all these three things?

- A. They grow.
- B. They respond to changes.
- C. They need air, food and water.
- D. They move from place to place.

- (1) A and C only
- (2) B and D only
- (3) A, B and C only
- (4) A, B, C and D

( )

2. The following items are classified into 2 groups, X and Y.

Group X

paper  
eraser  
envelope

Group Y

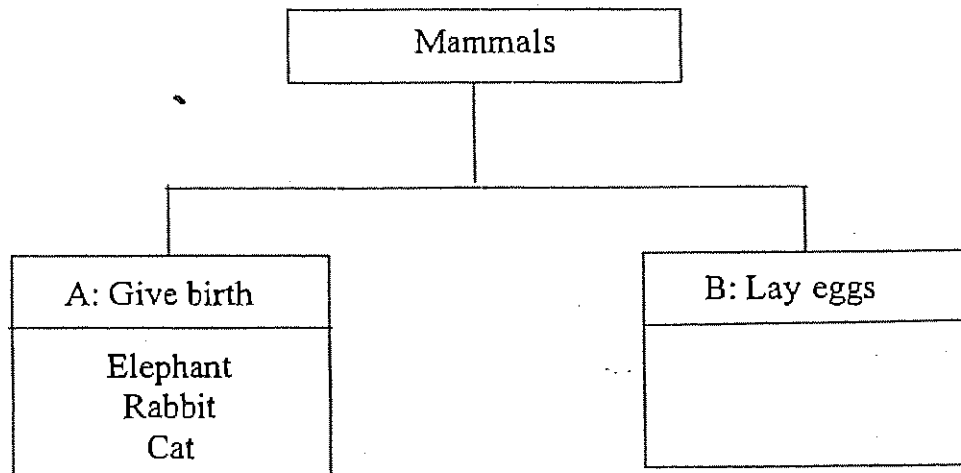
coin  
metal cupboard  
plastic file

How are the items being classified?

|     | Group X       | Group Y       |
|-----|---------------|---------------|
| (1) | Once alive    | Never alive   |
| (2) | Hard          | Soft          |
| (3) | Small objects | Big objects   |
| (4) | Light objects | Heavy objects |

( )

3. Mammals can be sorted according to their method of reproduction.



Which of the following mammals can be placed in Group B?

- A. Bat
- B. Whale
- C. Dolphin
- D. Platypus
- E. Spiny anteater

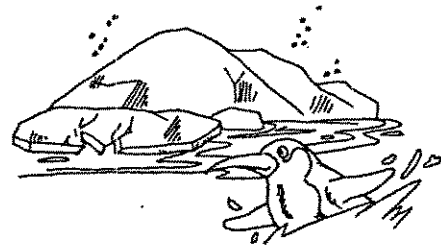
- (1) A and D only
- (2) D and E only
- (3) A, B and C only
- (4) C, D and E only

( )

4. Study the two animals shown below.



Eagle



Penguin

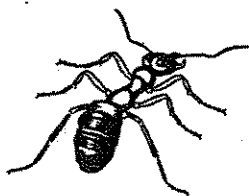
How are the two animals different from each other?

- A. Their ways of movement
- B. Their outer coverings
- C. Their habitats

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

( )

5. The diagram below shows three insects.



Ant



Cockroach



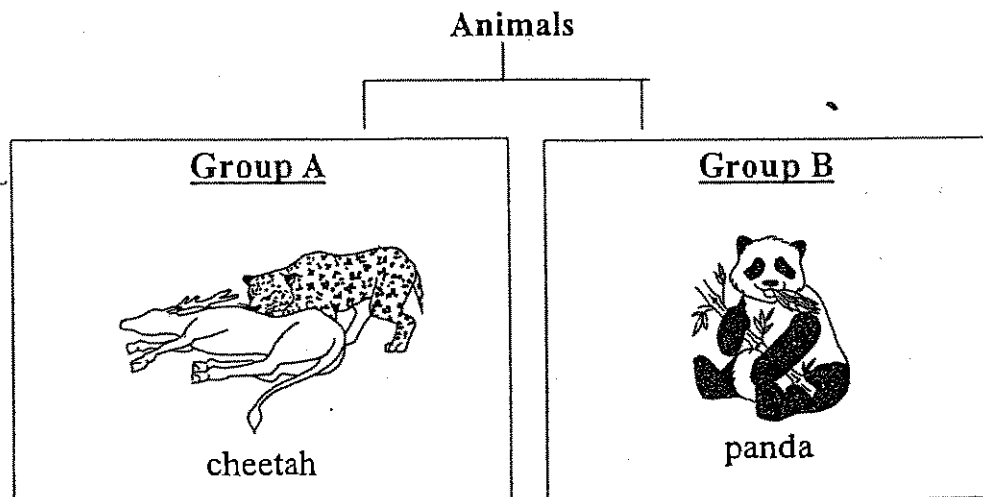
Praying Mantis

Which one of the statements below is not true about the three insects?

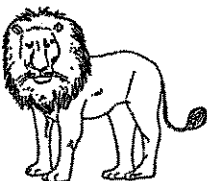



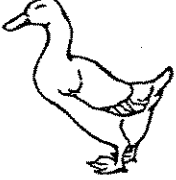



- (1) They have six legs.
- (2) They reproduce by laying eggs.
- (3) They have a pair of feelers.
- (4) They have wings.

( )

6. The classification table below shows that different animals eat different types of food.







Which one of the following pairs of animals can be classified correctly under **Group A** and **Group B**?

|     | <b><u>Group A</u></b>                                                                        | <b><u>Group B</u></b>                                                                          |
|-----|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| (1) | <br>lion   | <br>deer  |
| (2) | <br>rat   | <br>goat   |
| (3) | <br>duck  | <br>horse |
| (4) | <br>zebra | <br>koala |

( )

7. Study the classification table below.

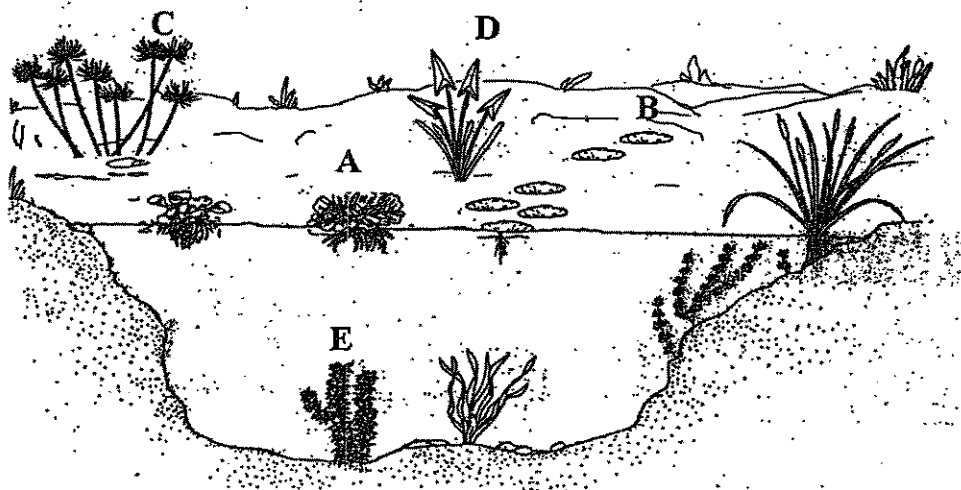
| Group Y                                                                           |                                                                                   | Group Z                                                                            |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| papaya                                                                            | pear                                                                              | pineapple                                                                          | durian                                                                              |

Which headings are suitable for Group Y and Group Z?

|     | Group Y                 | Group Z                |
|-----|-------------------------|------------------------|
| (1) | Big fruits              | Small fruits           |
| (2) | Sour fruits             | Sweet fruits           |
| (3) | Fruits with one seed    | Fruits with many seeds |
| (4) | Fruits with smooth skin | Fruits with rough skin |

( )

8. Study the water plants below carefully

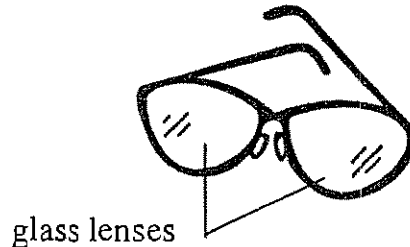


Which of the following shows the correct classification of the plants?

|     | Floating        | Partially submerged | Fully submerged |
|-----|-----------------|---------------------|-----------------|
| (1) | A and D only    | B and C only        | E only          |
| (2) | A and B only    | C and D only        | E only          |
| (3) | A, B and C only | E only              | D only          |
| (4) | A, B and C only | D only              | E only          |

( )

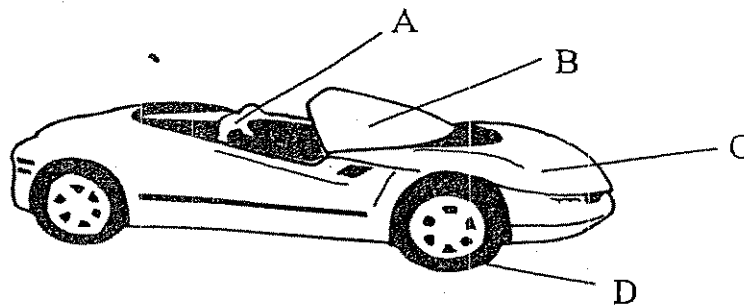
9. Which one of the following statements about shrubs is true?
- (1) Shrubs do not have chlorophyll.
  - (2) Shrubs have thick woody trunks.
  - (3) Shrubs have weak stems and cannot stand upright.
  - (4) Shrubs are short and bushy and have thinner stems than trees. ( )
10. Which of the following statements are true of fungi?
- A. Fungi are plants.
  - B. Fungi are animals.
  - C. Fungi feed on dead plants.
  - D. Fungi feed on dead animals.
- (1) A only
  - (2) B and C only
  - (3) C and D only
  - (4) A, C and D only ( )
11. What property of glass do we consider as the most important for making lenses?



- (1) It is hard.
- (2) It is flexible.
- (3) It is smooth.
- (4) It is transparent. ( )



12. The picture below shows a car.



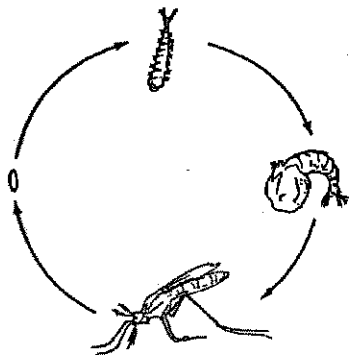
Which part of the car is made from metal?

- (1) A
- (2) B
- (3) C
- (4) D

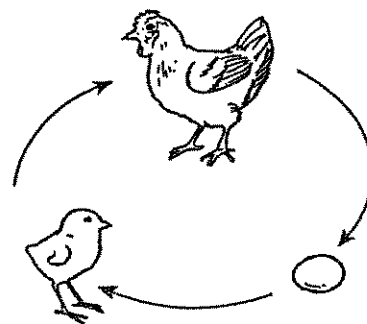
( )

13. Study the life cycles of a mosquito and a chicken below.

Life cycle of a mosquito



Life cycle of a chicken



Which of the following show(s) the difference(s) between the life cycles of the two animals correctly?

- A. The life cycle of a mosquito has 4 stages but the life cycle of a chicken has 3 stages.
- B. The young of a mosquito does not look like its parent but the young of a chicken looks like its parent.
- C. A mosquito lays eggs in water but a hen lays eggs on land.

- (1) A only
- (2) A and B only
- (3) B and C only
- (4) A, B and C

( )

14. Which one of the following shows the correct order of the stages of growth of a tomato plant?

- (1) seed → shoot → root → leaves
- (2) seed → root → leaves → shoot
- (3) seed → leaves → root → shoot
- (4) seed → root → shoot → leaves

( )

15. Which of the following substances can be transported by our blood?

- (A) Food
- (B) Water
- (C) Oxygen
- (D) Carbon dioxide
- (E) Waste materials

- (1) A and E only
- (2) B, C and D only
- (3) A, B, C and D only
- (4) A, B, C, D and E

( )

16. Study the 2 cups below. Cup A contains very hot water while Cup B contains iced water.



Cup A



Cup B

Which sense organs can best help us to identify the glass of hot water?

- A. Skin
- B. Ears
- C. Nose
- D. Eyes

- (1) B and C only
- (2) A and B only
- (3) A and C only
- (4) A and D only

( )

17. Which of these statements best describes the skeletal system?

- A. The skull protects the brain.
- B. Joints are where two bones meet.
- C. Interaction of the skeletal and muscular systems enables movement to take place.

- (1) A and B only
- (2) A and C only
- (3) B and ~~A~~ C only
- (4) A, B and C

( )

18. Which of the four systems is correctly matched to its function?

- |     | <b>SYSTEM</b>      |   | <b>FUNCTION</b>                                         |
|-----|--------------------|---|---------------------------------------------------------|
| (1) | Muscular Systems   | – | takes oxygen into the body                              |
| (2) | Digestive Systems  | – | carries food, water and oxygen to all parts of the body |
| (3) | Skeletal Systems   | – | supports the body                                       |
| (4) | Circulatory System | – | breaks down food into simple substance                  |

( )

19. Joey and her friends went to a hawker centre to drink some soup. She commented, "The mushroom soup is too salty."

She is using her sense of \_\_\_\_\_ and \_\_\_\_\_ to give the above comments.

- A. taste
- B. smell
- C. touch
- D. sight

- (1) A and C only
- (2) B and C only
- (3) B and D only
- (4) A and D only

( )

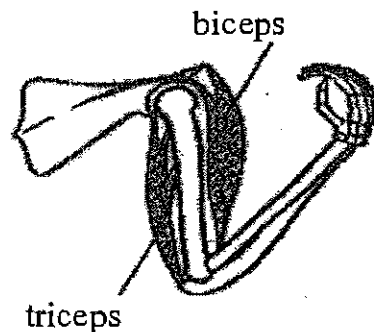
20. Which of the statement(s) below is/are true? Identify the correct statement(s).

- A. The skull protects the skeleton.
- B. The organs that the ribs cage protects are the heart and the lungs.
- C. The skeleton helps to protect the soft and important organs inside the body.
- D. Muscles are not necessary for movement.

- (1) A only
- (2) D only
- (3) B and C only
- (4) A and D only

( )

21. Look at the diagram below. It shows the bones and muscles in our arm.



In order to bend our arm, the biceps \_\_\_\_\_ but the triceps \_\_\_\_\_ to pull on the bones.

- (1) relax...contract
- (2) relax... relax
- (3) contract ... relax
- (4) contract... contract

( )

22. Which of the following statement(s) is/are TRUE about the muscular system?

- (A) All the muscles in our body are attached to bones.
- (B) Muscles often work in pairs, while one relaxes the other contracts.
- (C) The muscular and skeletal systems work together to enable movement.

- (1) B only
- (2) A and B only
- (3) A and C only
- (4) A, B and C

( )

23. A magnet will lose its magnetism if it is \_\_\_\_\_.

- A. heated
- B. dropped
- C. hammered
- D. broken

- (1) A and B only
- (2) C and D only
- (3) A, B and C only
- (4) A, B, C and D

( )

24. We make use of magnets everyday. Which one of the following statements is true?

- (1) Magnets are used to make the objects fall apart.
- (2) The compass needle is a magnet and is used to show directions
- (3) Magnets can be used to stroke a CD to make it last longer.
- (4) Magnets can hold a piece of paper in place by repelling the magnetic object behind the refrigerator.

( )

25. Using a ruler, measure the line below. What is its length in centimetres?

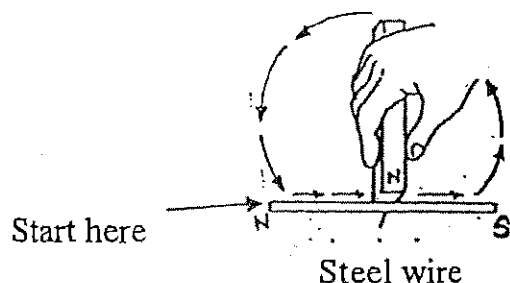


- (1) 9
- (2) 0.9
- (3) 9.9
- (4) 90

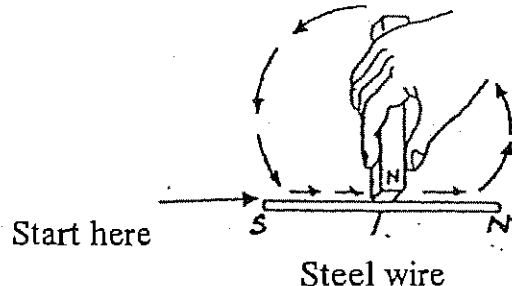
( )

26. A steel wire can be made into a magnet by the stroking method. Which one of the following correctly shows the poles of the temporary magnet when it is stroked in the direction indicated?

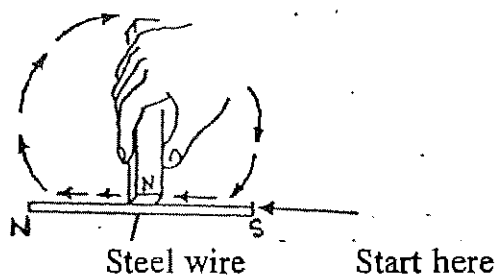
(1)



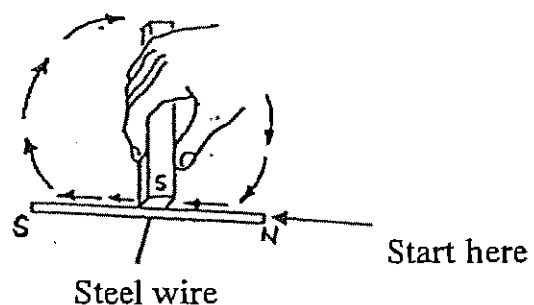
(2)



(3)

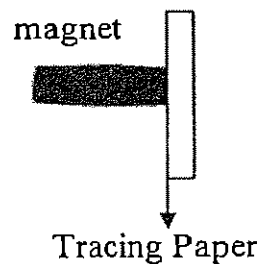
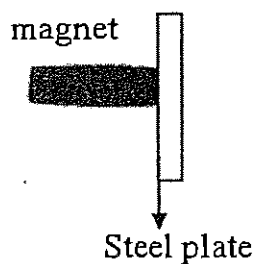
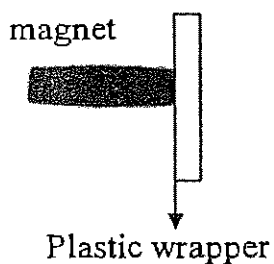
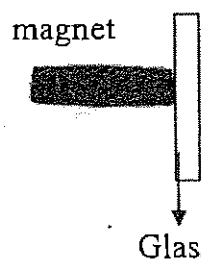


(4)



( )

27. The pull of magnet is unlikely to pass through a \_\_\_\_\_.  
(Assume same thickness of the materials.)



- (1) piece of glass  
(2) plastic wrapper  
(3) piece of steel plate  
(4) piece of tracing paper

( )

28. A magnet attracts things made of \_\_\_\_\_?

- (A) iron
- (B) steel
- (C) silver
- (D) copper

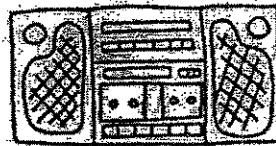
- (1) A and B only
- (2) A and D only
- (3) B and C only
- (4) C and D only

( )

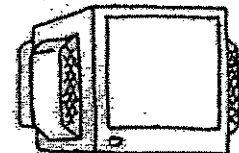
29. Which of the following objects use magnetism to work?



Telephone



radio

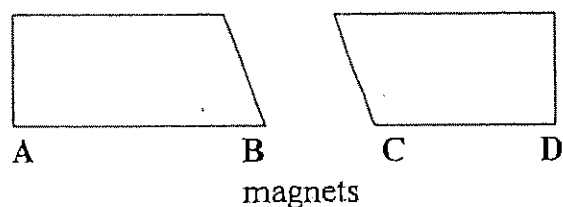


television

- (1) A and B only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

( )

30. A bar magnet is broken into two parts as shown in the picture below.



Which one of the following correctly shows what the poles of the magnets are?

| Poles |   |   |   |   |
|-------|---|---|---|---|
|       | A | B | C | D |
| (1)   | N | S | S | N |
| (2)   | N | N | S | S |
| (3)   | S | S | N | N |
| (4)   | S | N | S | N |

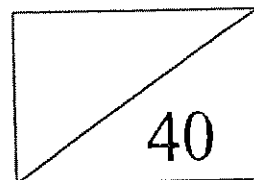
( )

**END OF SECTION A**  
**GO ON TO SECTION B**



**KONG HWA SCHOOL  
SEMESTRAL ASSESSMENT TWO 2007  
SCIENCE  
PRIMARY 3**

**Marks**



Name: \_\_\_\_\_ ( )

Class: Primary 3/ \_\_\_\_\_

Date : 29 October 2007

Parent's Signature: \_\_\_\_\_

**BOOKLET B  
OPEN ENDED QUESTIONS  
40 MARKS**

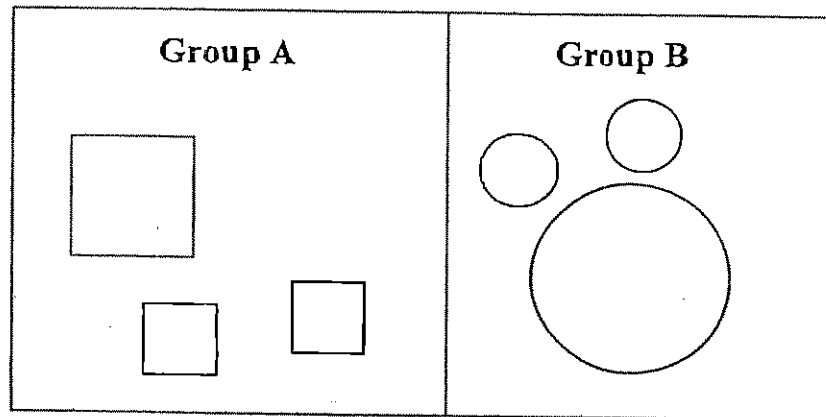
Total time for Booklets A and B: 1 h 30 mins

DO NOT LOOK AT THE QUESTIONS UNTIL YOU ARE TOLD TO DO SO.  
FOLLOW ALL INSTRUCTIONS CAREFULLY.  
DO NOT WASTE TIME. IF A QUESTION IS DIFFICULT FOR YOU, GO ON TO  
THE NEXT ONE.  
REMEMBER TO ANSWER ALL QUESTIONS.

**SECTION B : (40 marks)**

For questions 31 to 45, write your answers in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question.

31. Study the classification table below carefully.



Explain how the objects are classified.

---



---

[2]

32. Study the pictures carefully.



Turtle



Seal

- (a) State how the animals shown above move about in the water.

---

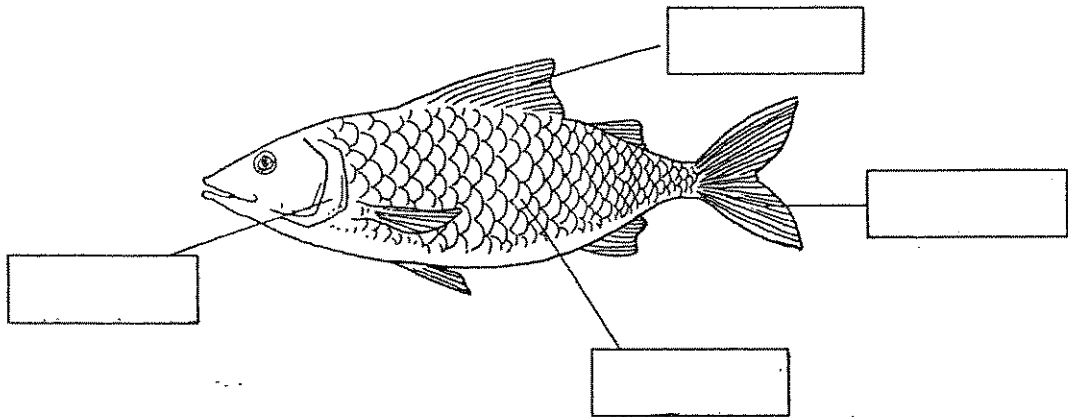
[1]

- (b) Which part of their body do they use to move about?

---

[1]

33. The picture below shows a fish.



(a) Label the different parts of a fish in the boxes provided

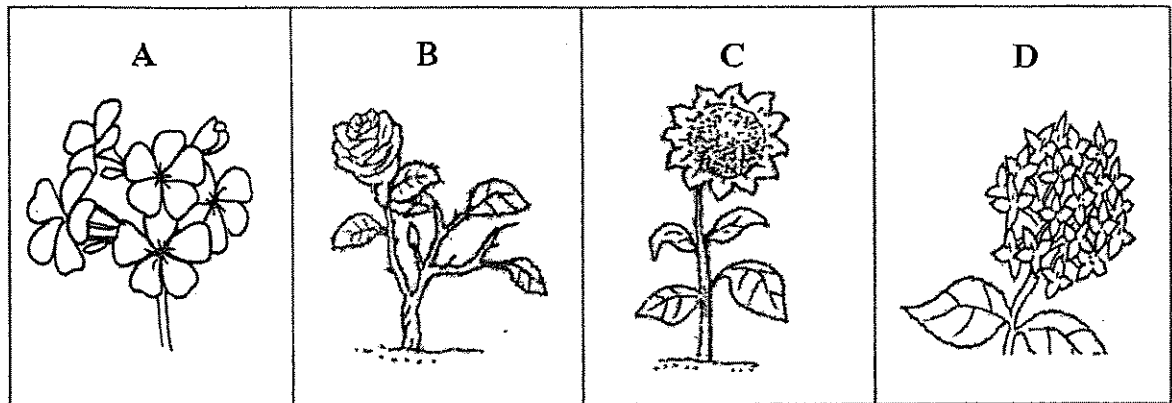
[2]

(b) What is the use of the gills?

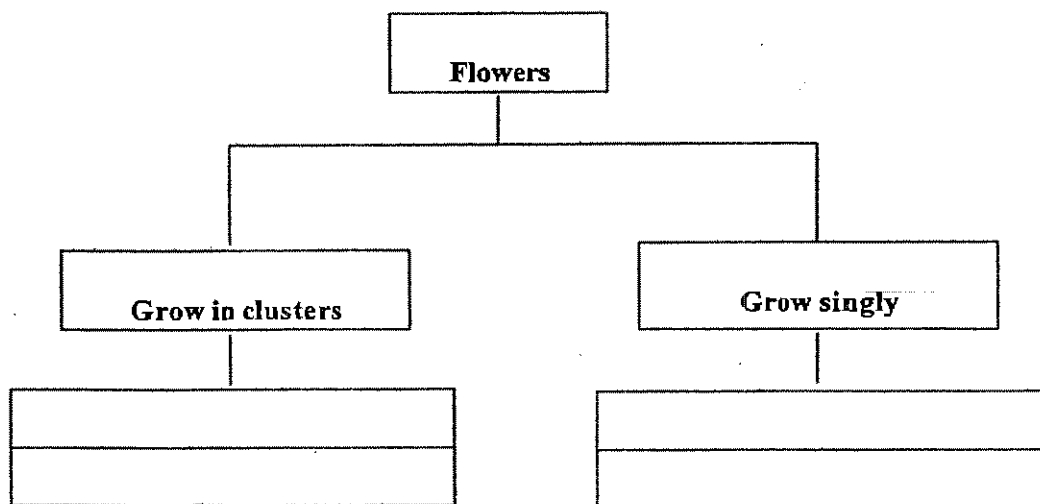
---

[1]

34. Study the classification table below.

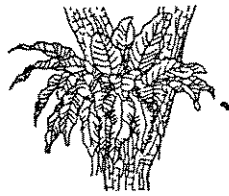


The pictures above show four different types of flowers A, B, C and D. Fill in each of the 4 boxes below with the **correct letter**.



[2]

35. Study the pictures carefully.



bird's nest fern



mushroom

- (a) State how the <sup>mushroom</sup>~~moss~~ and the bird's nest fern are similar in the place where they grow.

---

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[1]

- (b) State how the mushroom and the bird's nest fern are similar in the way they reproduce.

---

---

[1]

36. Shawn conducted several tests on materials A, B and C and recorded the results below.

|                             | Material A | Material B | Material C |
|-----------------------------|------------|------------|------------|
| Is it flexible?             | No         | Yes        | Yes        |
| Does it stretch?            | No         | No         | Yes        |
| Does it break when dropped? | Yes        | No         | No         |
| Is it waterproof?           | Yes        | Yes        | No         |

- (a) Which material(s) should Shawn use to make a raincoat?

---

[1]

- (b) Give a reason for his choice(s) in (a).

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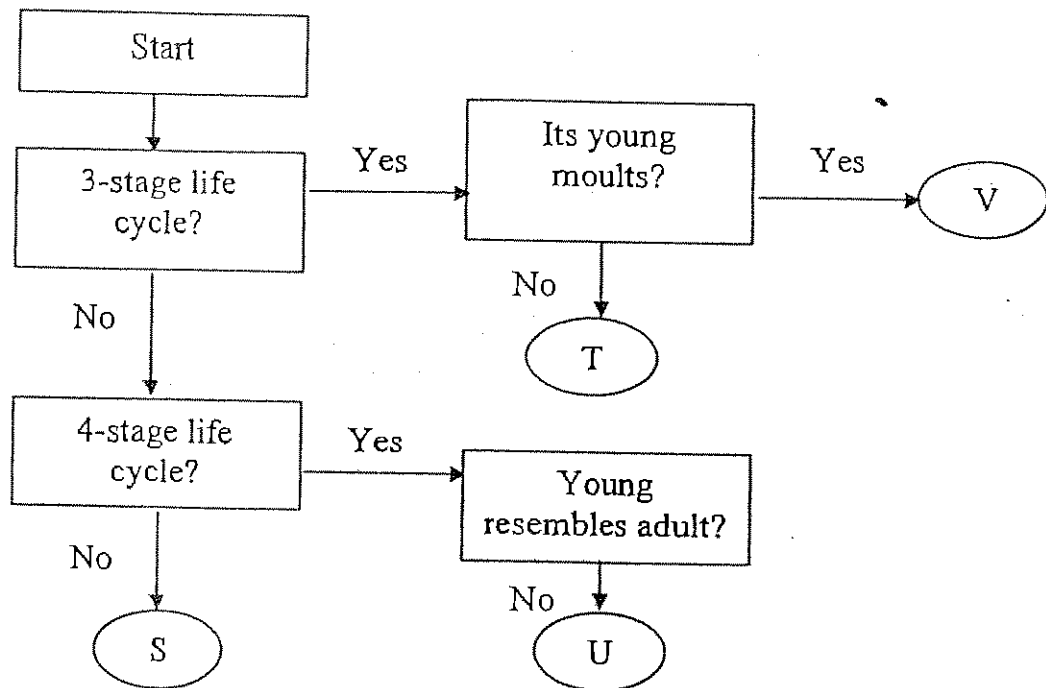
[1]

- (c) Shawn was given a piece of coin and he carried out the same test again. Complete the table below to show the correct results of the test. Write 'Yes' or 'No' in the boxes.

|                             | A coin |
|-----------------------------|--------|
| Is it flexible?             |        |
| Does it stretch?            |        |
| Does it break when dropped? |        |
| Is it waterproof?           |        |

[1]

37. Study the flow chart below and answer the questions which follow.  
The letters S, T, U and V represent organisms.

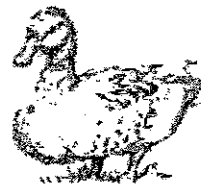


- (a) (i) Which letter represents a **moth**?



[1]

- (b) (ii) Which letter represents a **duck**?



[1]

- (c) Why do some animals **moult**?

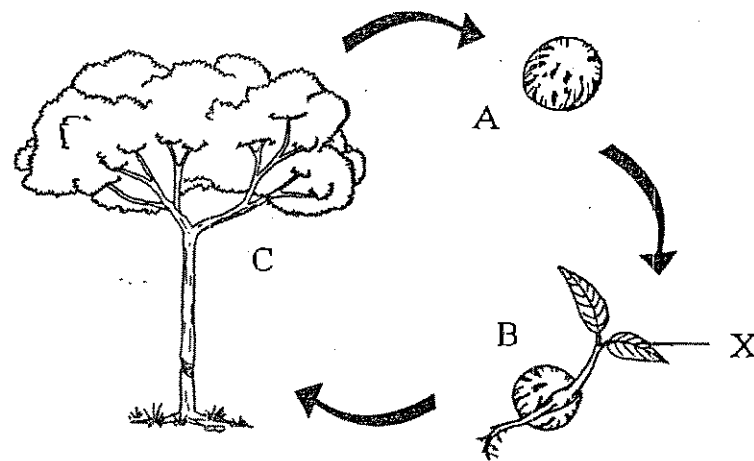
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---

[1]

38. The following diagram shows the life cycle of a plant.



- (a) What is the function of A?

---

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[1]

- (b) At which stage does the plant **start** making food?

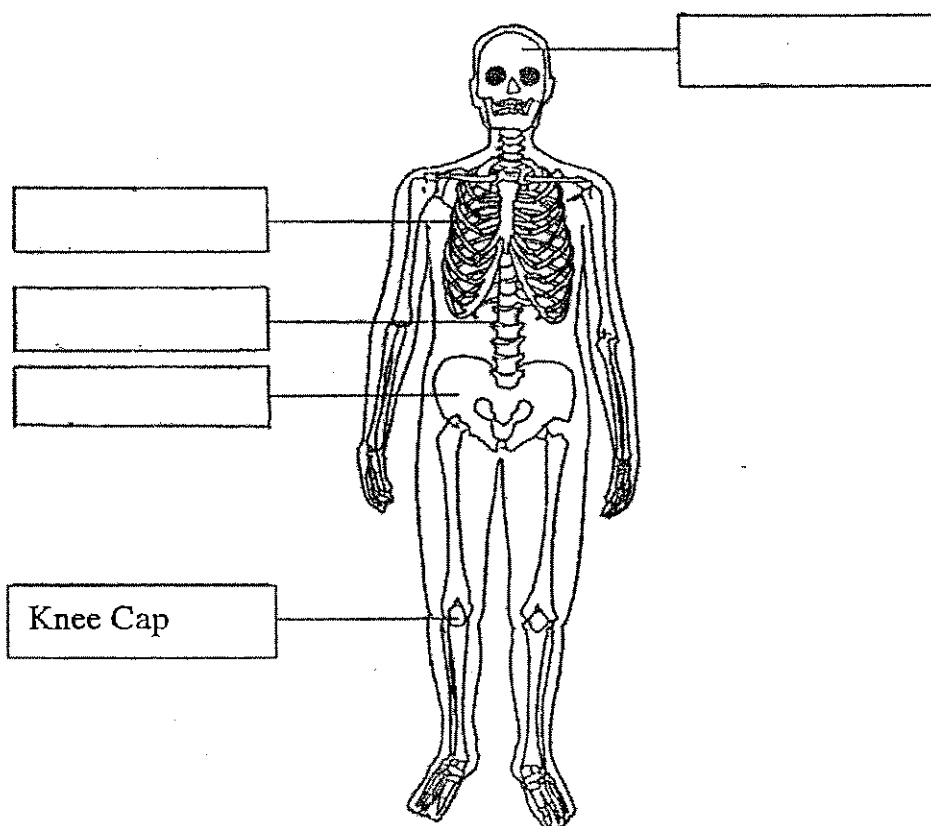
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[1]



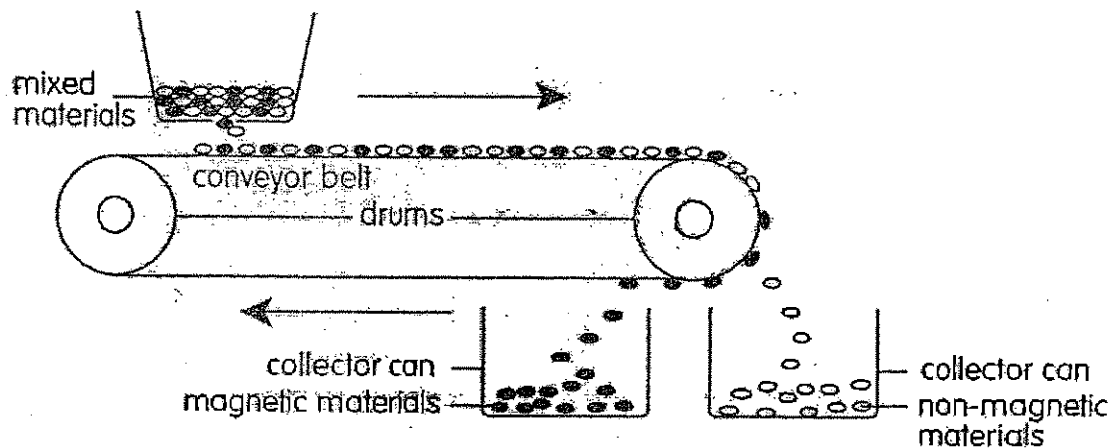
39. Label the four different parts of the skeleton below.

|       |       |         |          |
|-------|-------|---------|----------|
| skull | heart | lung    | hip bone |
| shin  | spine | ribcage | muscle   |



[2]

43. A magnetic separator is shown in the figure below. It is used to separate magnetic materials from non-magnetic materials. It consists of a conveyor belt passing over two drums.



- (a) One of the drums needs to be magnetised for this separator to work. Shade the drum that should be magnetised.
- [1]
- (b) When the conveyor belt brings the mixed materials to the magnetised drum, the non-magnetic materials drop off. What happens to the magnetic materials?

---

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[2]

44. Meilin collected six objects for his science experiment. He held a bar magnet near each object. He wanted to find out which object would be attracted by the bar magnet and which would not.

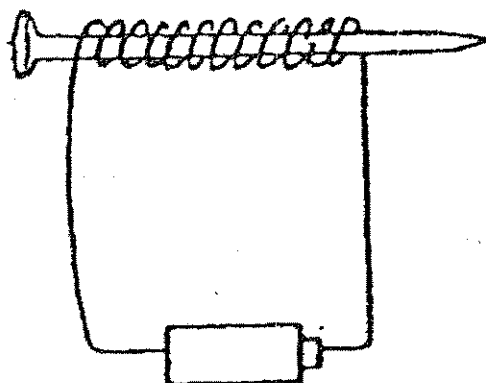
|      |                |                                         |             |            |           |
|------|----------------|-----------------------------------------|-------------|------------|-----------|
| Wood | Paper bookmark | <del>Metal</del> <sup>Steel</sup> spoon | Paper clips | Safety pin | Cardboard |
|------|----------------|-----------------------------------------|-------------|------------|-----------|

Classify the above objects in the table below.

| Attracted by magnets | Not attracted by magnets |
|----------------------|--------------------------|
|                      |                          |

[3]

45. Derek tries to make an iron nail into a temporary magnet. He uses a wire and ~~two batteries~~ as shown below.  
a battery



To test the strength of the magnet, he puts paper clips near the magnet and records the number of paper clips that are attracted to it. Study the table below.

| Number of coils of wire on the iron nail | Number of paper clips attracted to the iron nail |
|------------------------------------------|--------------------------------------------------|
| 5                                        | 10                                               |
| 10                                       | 20                                               |
| ?                                        | 30                                               |
| 20                                       | 40                                               |

- (a) What is the relationship between the number of coils and the strength of the iron nail? Fill in the blanks with "greater" or "smaller", "stronger" or "weaker".

Each word can be used more than once.

The \_\_\_\_\_ the number of coil, the

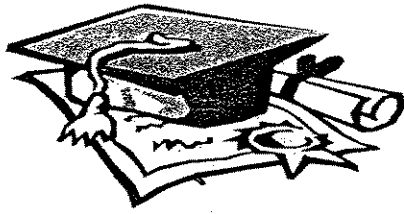
\_\_\_\_\_ the strength of the magnets.

[1]

- (b) How many coils of the wire are required for 30 paper clips to be attracted?

[1]

~ END OF PAPER ~



# ANSWER SHEET

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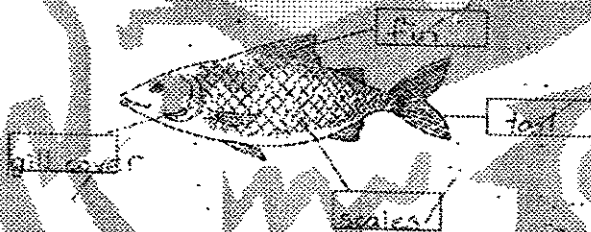
- |      |      |      |      |      |      |
|------|------|------|------|------|------|
| 1)3  | 2)1  | 3)2  | 4)2  | 5)4  | 6)1  |
| 7)4  | 8)2  | 9)4  | 10)3 | 11)4 | 12)3 |
| 13)4 | 14)4 | 15)4 | 16)4 | 17)4 | 18)3 |
| 19)4 | 20)3 | 21)3 | 22)3 | 23)3 | 24)2 |
| 25)1 | 26)1 | 27)3 | 28)1 | 29)4 | 30)4 |

31) The objects in Group A are classified under square shape while objects in Group B are classified under circle shape.

32)a. The animals swim about in the water.

32)b. They use their flippers to move about.

33)a.



33)b. The use of the gills is to help the fish to breathe.

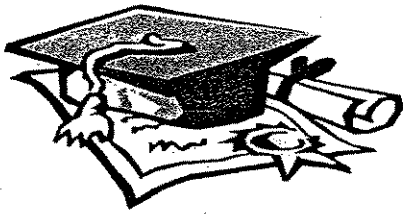
34) Grow in clusters: -A, D Grow singly: -B and C

35)a. Both grow on other plants. B. Both reproduce by spores.

36)a. Material B b. Material B is flexible, does not stretch, does not break when drop and is waterproof.

36)c. flexible No, Stretch No, Break No, Waterproof Yes

37)a. i. U b. ii. T c. Their skin grow bigger.



# ANSWER SHEET

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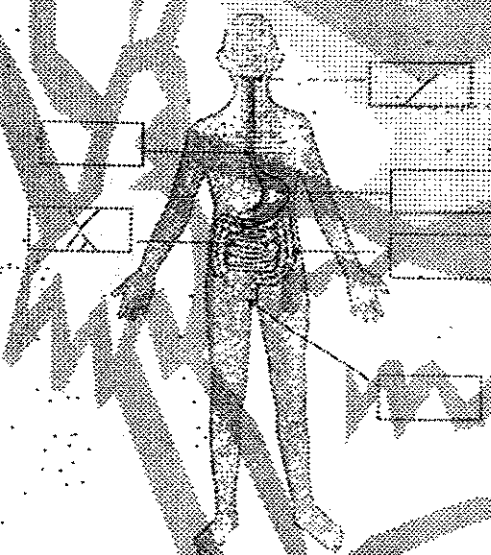
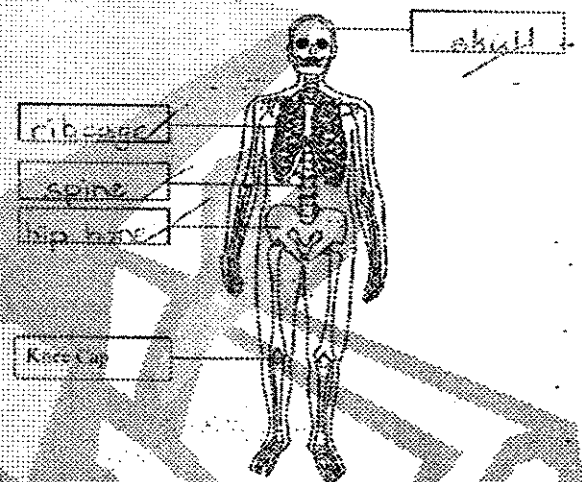
38)a. To allow the reproduction of the plants.

38)b. The plant start making food at B. 39)

40)a.i. The undigested food being stored is in the large intestine.

ii) Water is removed in the large intestine.

40)b.



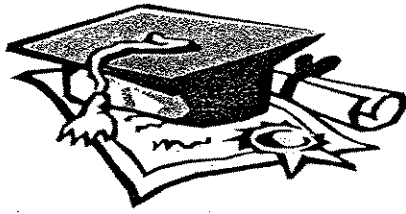
41)a. Ball & Socket joints: -shoulder , Hip , b. Elbow, knee

41)b. Neck muscles: -help to turn our head in different directions.

Chest muscles: -are used when we breathe

Facial muscles: -are used when we smile or cry

Abdominal muscles: -Help in bending.



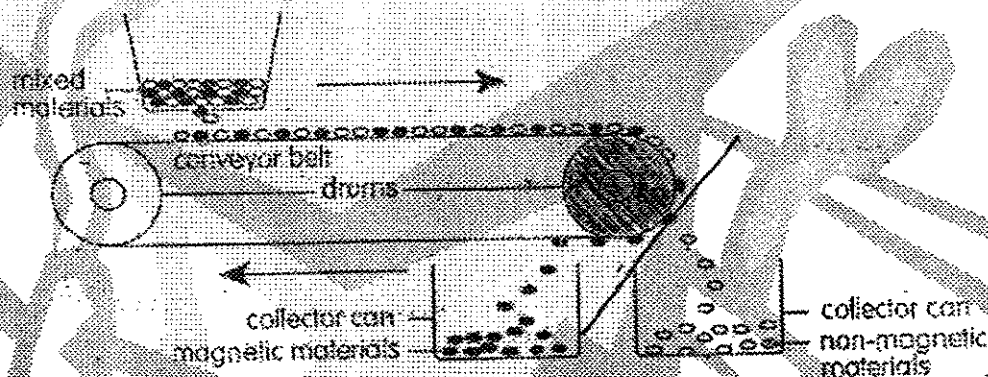
# ANSWER SHEET

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42)a. she would use a magnet.

b. She would slide the magnet, so that the magnetism can pass through the glass and use the magnet to slide until the brim.

43)a.

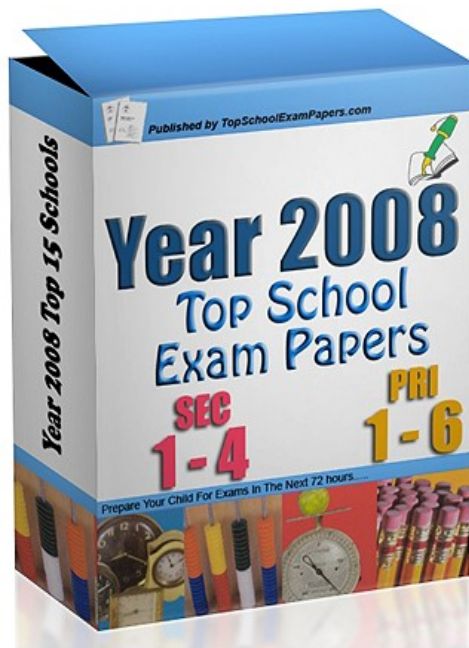


43)b. They will stick onto the conveyor belt, until it passes through the magnetized drum.

44)Attracted by magnet: paper clips, safety pin, steel spoon.

Not attracted by magnet: wood, paper bookmark, cardboard

45)a. greater, stronger      b. 15 coils of the wire are required for 30 paper clips to be attracted.



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