

**SINGAPORE CHINESE GIRLS' SCHOOL**  
**SECOND SEMESTRAL ASSESSMENT 2006**  
**PRIMARY 3**  
**SCIENCE**

Name: \_\_\_\_\_ ( ) Date: \_\_\_\_\_

Class: Primary 3

Duration: 1 hour

**Part I (30 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) in the Optical Answer Sheet.

1. Study the classification table carefully.

A	B	C
ant	pigeon	eel
crocodile	sparrow	dolphin
tortoise	seagull	seahorse

Which of the following has been correctly placed under each group?

	A	B	C
1)	crab	shark	flamingo
2)	eagle	snail	swordtail
3)	lobster	dove	molly
4)	parakeet	alligator	guppy

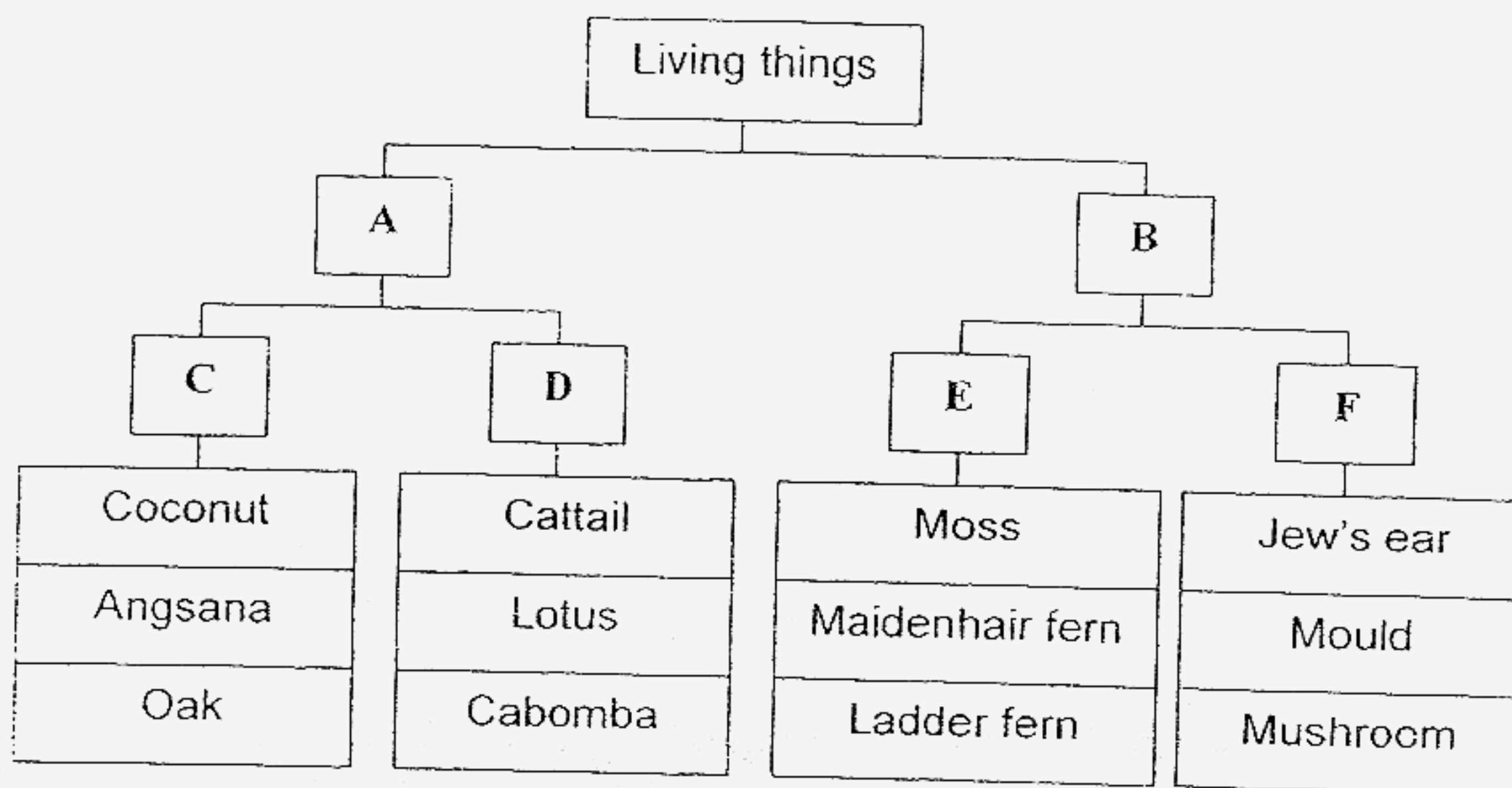
2. One similarity between snakes and prawns is that they \_\_\_\_\_.

- 1) crawl to move about
- 2) live on land and water
- 3) give birth to young alive
- 4) shed their outer coverings as they grow

3. Which one of the following shows the correct difference between the longan and the kiwi fruits?

	Longan	Kiwi
1)	green flesh	white flesh
2)	several seeds	one seed
3)	smaller in size	bigger in size
4)	hairy outer covering	smooth outer covering

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



4. What is the difference between the oak tree and the cabomba?

	Oak tree	Cabomba
1)	small	big
2)	poisonous	non-poisonous
3)	land plant	water plant
4)	Flowering plant	Non-flowering plant

5. The correct headings for E and F are \_\_\_\_\_ and \_\_\_\_\_ respectively.

	E	F
1)	Inedible	Edible
2)	land plants	water plants
3)	Can make food	Cannot make food
4)	Reproduce by seeds	Reproduce by spores

6. Which one of the following statements is **false**?

- 1) Seeds can germinate at 0°C.
- 2) Flowering plants reproduce by seeds.
- 3) All plants need sunlight to photosynthesise.
- 4) There are three stages in a plant's life cycle.

Study the table carefully and answer Questions 7 and 8.

Mr Ting	Mrs Ting	Emily Ting	Brandon Ting
Curly hair	Straight hair	Straight hair	Straight hair
Attached earlobes	Unattached earlobes	Unattached earlobes	Attached earlobes
Short eyelashes	Long eyelashes	Short eyelashes	Short eyelashes
Cleft chin	Uncleft chin	Cleft chin	Uncleft chin

7. What has Emily inherited from her mother?

- 1) Cleft chin and short eyelashes
- 2) Straight hair and short eyelashes
- 3) Cleft chin and unattached earlobes
- 4) Straight hair and unattached earlobes

8. What have Emily and Brandon inherited from their father?

- 1) Uncleft chin
- 2) Straight hair
- 3) Short eyelashes
- 4) Attached earlobes

9. Study the classification table below.

X	Y
sampan	mast
storybook	cymbals
soles of clogs	razor blade

The materials used to make the objects in Groups X and Y are \_\_\_\_\_ and \_\_\_\_\_ respectively.

- 1) glass, wood
- 2) wood, metal
- 3) metal, plastic
- 4) plastic, glass

10. Kathleen describes a material as follows.

- ❖ It can be decorated.
- ❖ It is hard after it hardens.
- ❖ It can be molded into various shapes when it is wet.

Which one of the following material is she describing?

- 1) Rock
- 2) Metal
- 3) Wood
- 4) Ceramic

11. Which one of the following correctly shows the flow of food in the body?

- 1) mouth → large intestine → small intestine → stomach
- 2) mouth → small intestine → stomach → large intestine
- 3) mouth → gullet → stomach → small intestine → large intestine
- 4) mouth → gullet → stomach → large intestine → small intestine

12. Simon tasted some samples of food. He then wrote down the following descriptions.

Sample 1 : It is crunchy yet salty.

Sample 2 : It is sweet and soft.

Sample 3 : It is juicy yet sour.

Which of the following types of food match the above descriptions correctly?

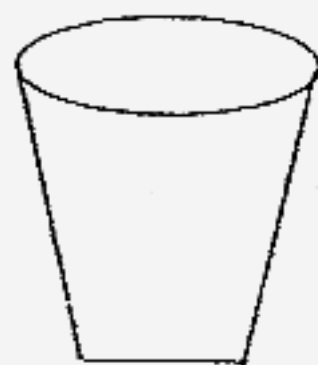
	Sample 1	Sample 2	Sample 3
1)	Cheese crackers	Strawberry cake	Lemon
2)	Lime	Prawn crackers	Pandan chiffon
3)	Apple	Oreo biscuits	Orange
4)	Salted egg	Ice-cream	lemonade

13. In which of the following devices is magnet not used?

- 1) Stapler
- 2) Electric bell
- 3) Telephone
- 4) Refrigerator

14. Which one of the following objects can be made into a magnet?

1)



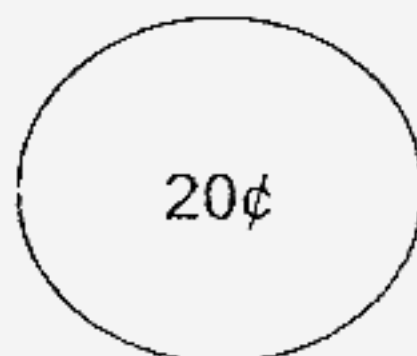
glass

3)



silver bracelet

2)



nickel coin

4)



cotton T-shirt

15. Sammy was given four magnets. He found that P attracted H and Y while Q repelled B. He then came to four conclusions.

P                      Q

G                      H

A                      B

X                      Y

Which one of the following conclusions is correct?

- |                              |                               |
|------------------------------|-------------------------------|
| 1) P repels B.               | 3) B attracts Y.              |
| 2) A and G are unlike poles. | 4) B, H and Y are like poles. |

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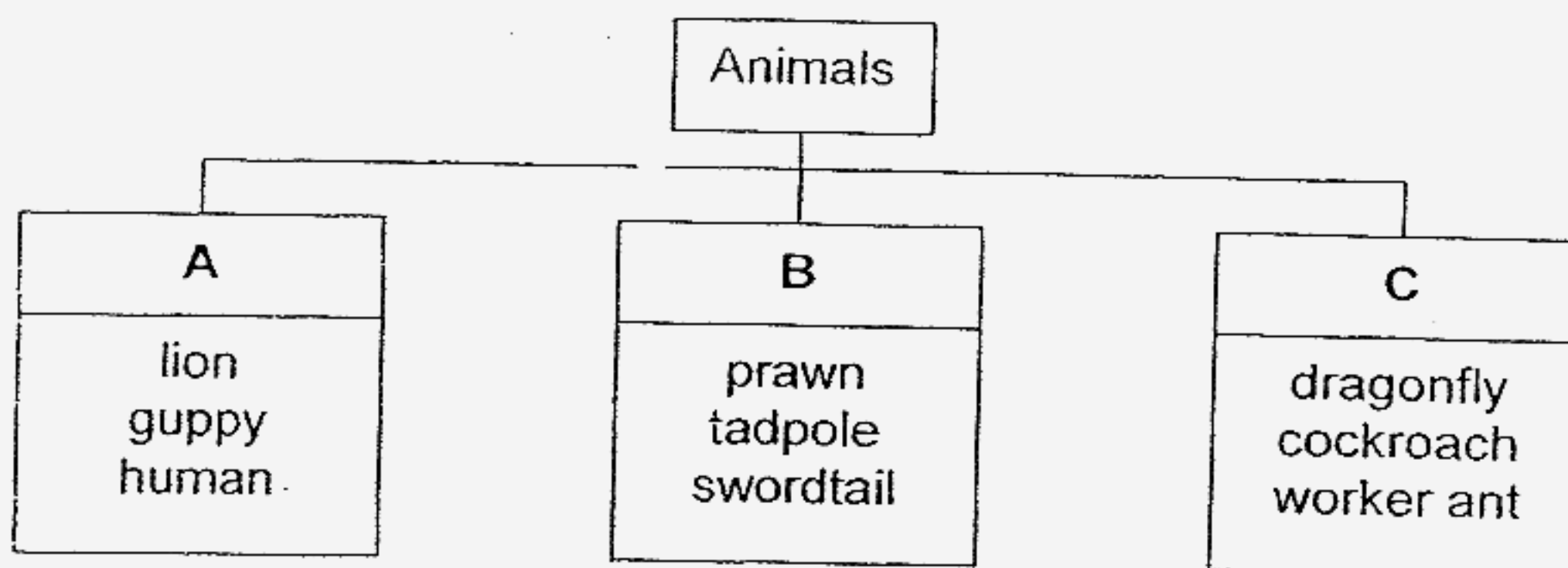
Components	Marks Obtained	Total Marks
Part I		30
Part II		20

Parent's Signature: \_\_\_\_\_

**Part II (20 marks)**

Answer all the following questions.

16. Study the classification diagram below.



a) Which animal has been wrongly classified? (1m)

\_\_\_\_\_

b) In which group (A, B or C) should this animal be placed? (1m)

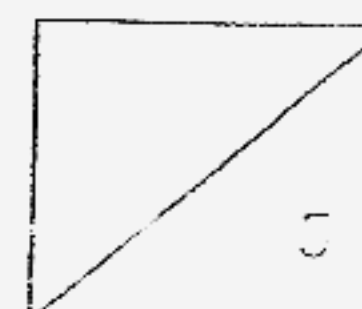
\_\_\_\_\_

c) How have these animals been classified? (3m)

A: \_\_\_\_\_

B: \_\_\_\_\_

C: \_\_\_\_\_





17. Plastic is used to make raincoats. Give **three** reasons why this is so. (3m)

- i) \_\_\_\_\_  
ii) \_\_\_\_\_  
iii) \_\_\_\_\_

18. Simon wanted to find out if the amount of water affects the growth of a young plant. He placed 3 similar pots of plants in his garden and watered them everyday for a week. He recorded the results at the end of the week. The table below shows his results.

Plants	Amount of water (ml)	Height of plant (cm) at the start of the experiment	Height of plant (cm) at the end of experiment
A	50	15	18
B	100	15	21
C	150	15	25

a) What relationship can Simon conclude between the amount of water and the height of the plant? (1m)

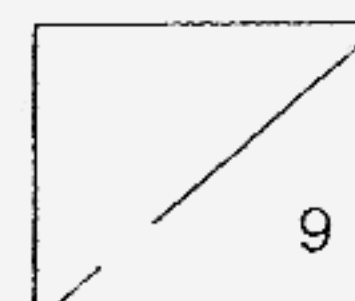
\_\_\_\_\_  
\_\_\_\_\_

b) Was the experiment a fair one? Explain your answer. (1m)

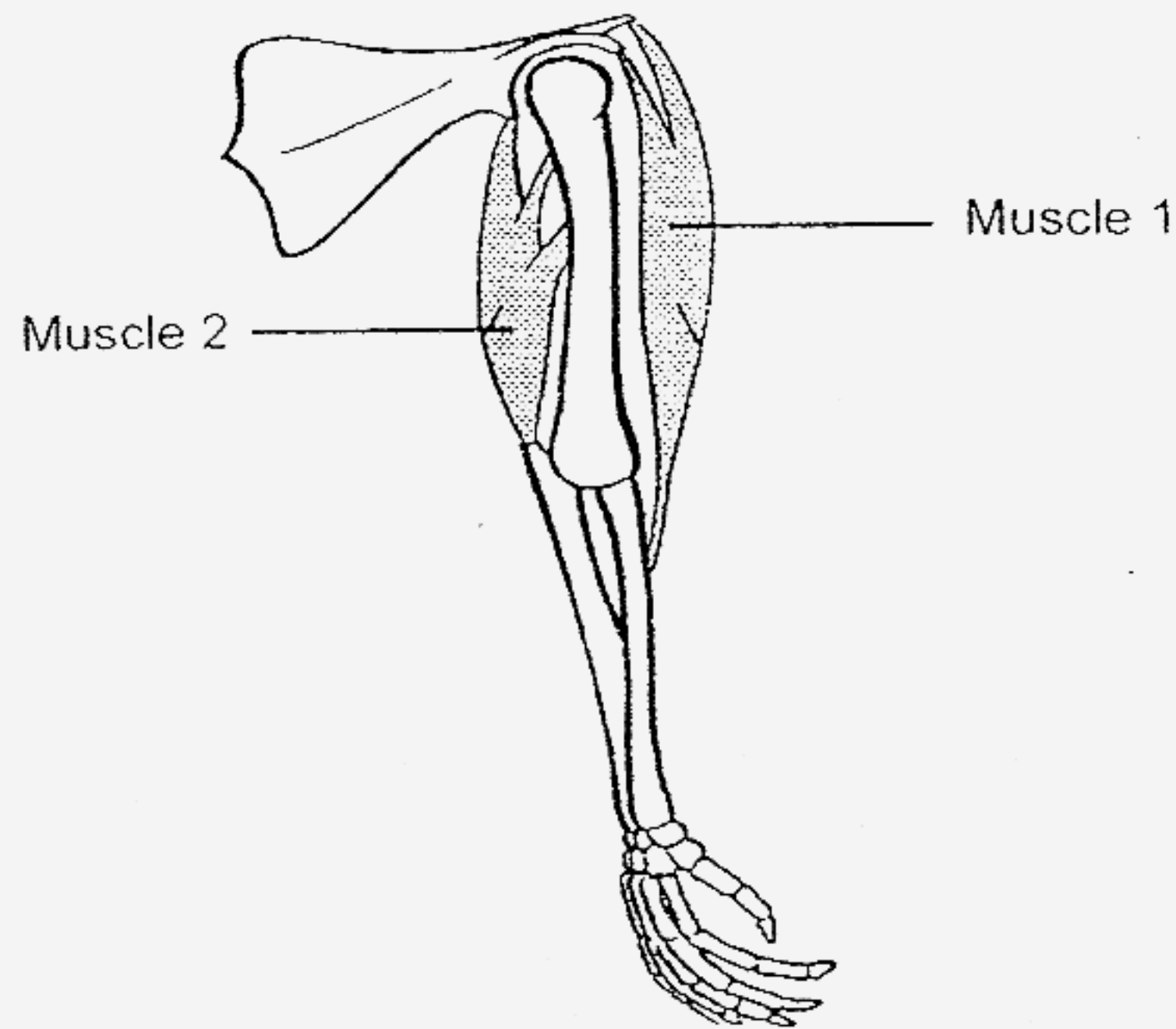
\_\_\_\_\_  
\_\_\_\_\_

19. Read the following statements. Write 'T' for every true statement and 'F' for every false statement. (4m)

(a)	An unfertilised egg can hatch.	
(b)	Seeds can grow into young plants.	
(c)	The maidenhair fern and the toadstool reproduce by spores.	
(d)	The pupa stage in an insect's life cycle has the highest level of physical activity.	



20. Below is a picture of an arm.



- a) Label whether the muscles in the picture are 'contracted' or 'relaxed'. (2m)

Muscle 1 : \_\_\_\_\_

Muscle 2 : \_\_\_\_\_

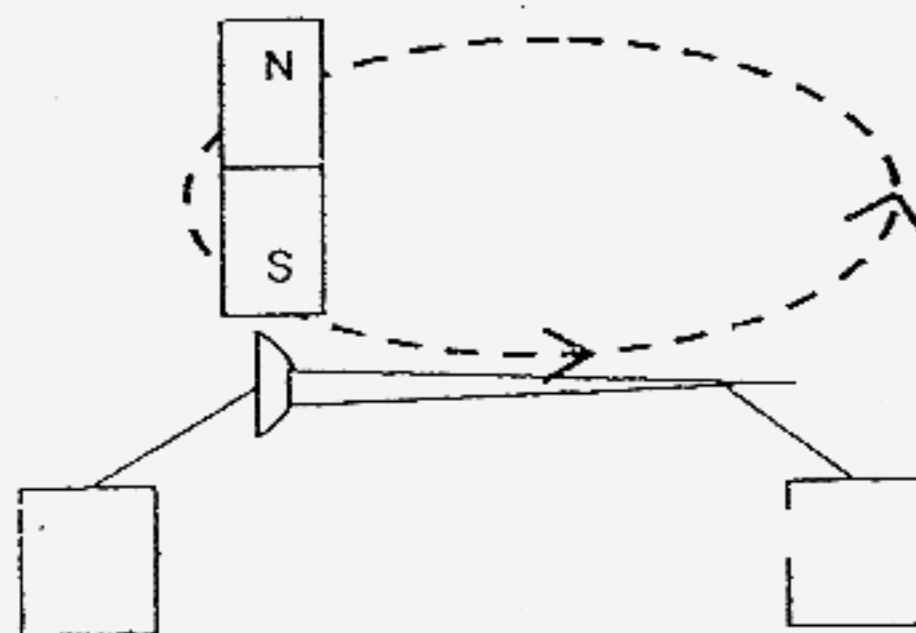
- b) Muscles are attached to bones. How does this help the above muscles to move the bones so the arm can be bent? (2m)

\_\_\_\_\_

\_\_\_\_\_

21. The picture below shows an iron nail being magnetised.

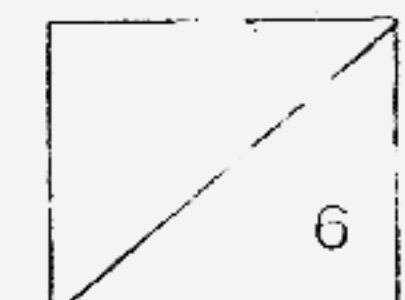
*bone.*



- a) Name the above method of magnetising the iron nail. (1m)

\_\_\_\_\_

- b) On the picture, label the poles of the magnetised iron nail. (1m)





- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) 3  | 2) 4  | 3) 3  | 4) 3  | 5) 3  |
| 6) 1  | 7) 4  | 8) 3  | 9) 2  | 10) 4 |
| 11) 3 | 12) 1 | 13) 1 | 14) 2 | 15) 4 |

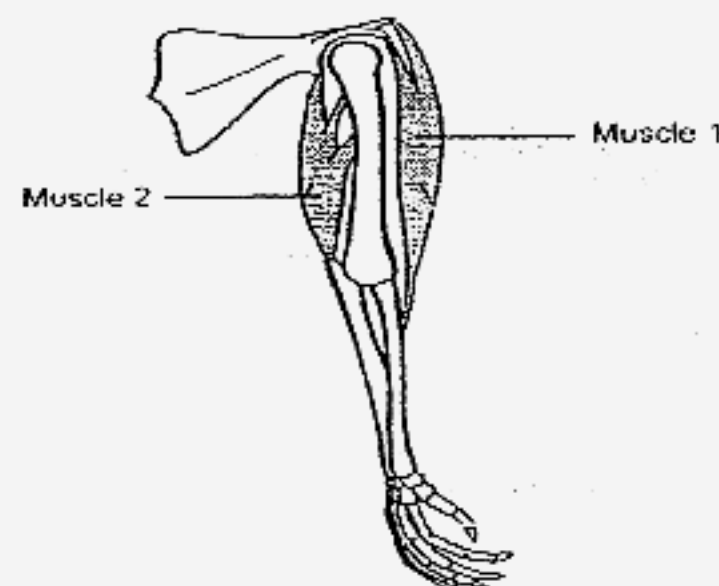
- Q16a. The guppy has been wrongly classified.  
 b. The guppy should be placed in Group B.  
 c. A : use lungs to breathe  
 B : use gills to breathe  
 C : use breathing holes to breathe

- Q17(i) Plastic is light  
 (ii) Plastic is waterproof  
 (iii) Plastic does not break easily

- Q18a. The greater the amounts of water, the faster the plants grow.  
 b. Yes. He kept all the variables same, except water.

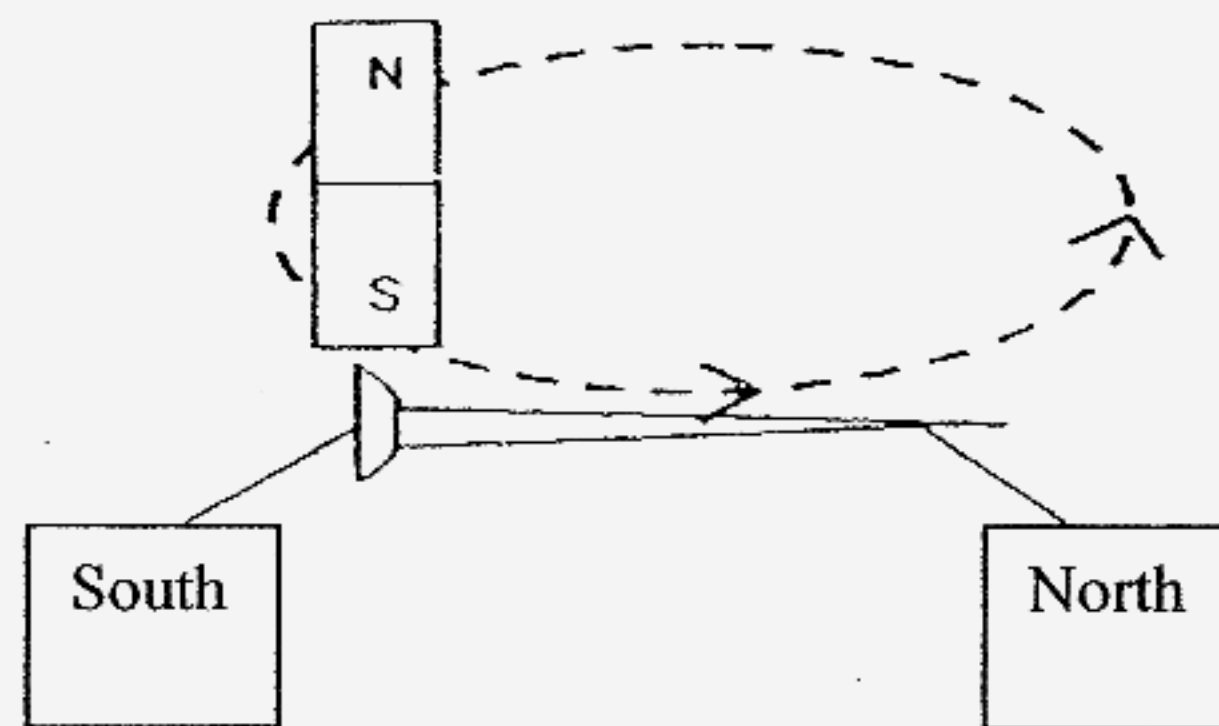
- Q19a. An unfertilized egg can hatch. **(False)**  
 b. Seeds can grow into young plants. **(True)**  
 c. The maidenhair fern and the toadstool reproduce by spores. **(True)**  
 d. The pupa stage in an insect's life cycle has the highest level of physical activity. **(False)**

Q20



- a. Muscle 1 : relaxed  
 Muscle 2 : contracted  
 b. To bend the arm, muscle 2 relaxes while muscle 1 contracts to pull the lower arm bone.

Q21.



- a. It is called the "stroking method".