

AI TONG SCHOOL

CAT

2004 SEMESTRAL ASSESSMENT (1) PRIMARY SIX

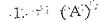
Duration: 1hour 45min

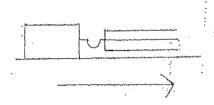
Date: 18th May 2004

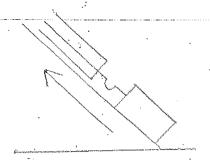
INSTRUCTIONS

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

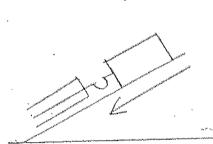
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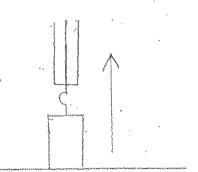




...(C)



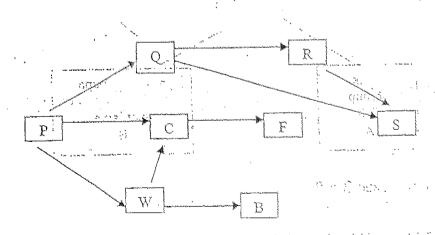
(D)



A spring balance was used to pull a block of wood as shown in the diagrams above. In which of the diagrams was the greatest force used?

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

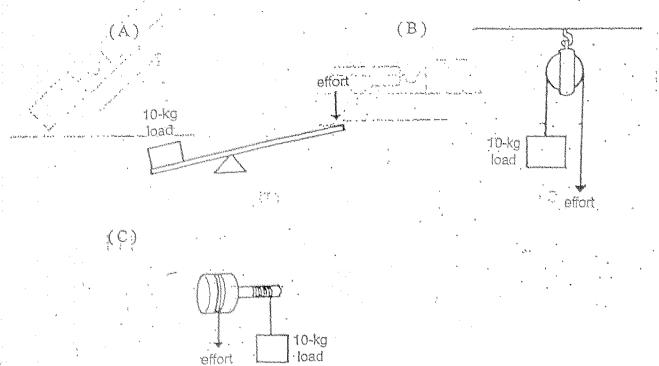
2.



Study the food web. Which of the following statement is false

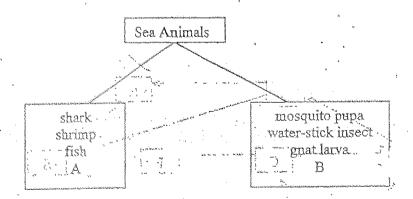
- (1) R is a carnivore
- (2) S is a predator of Quit

Which of the following simple machine(s) use(s) less than 10kg of effort to lift 3. the load?



- or (1) Bonback at
 - B and C only

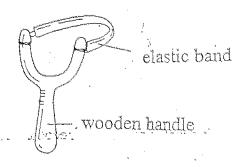
Study the classification below.



What can A and B be?

		The second secon	german and a second contract of the contract o
		Α	_ B
	(1)	tubifex worm: 5 is	e gjož dadpolenia w de
	(-2)	dragonfly nymph	water scorpion
ء مارسدي	(3)	tadpole	water spider 34
į	(4)	backswimmer	mayfly nymph

5. Holly used a catapult to shoot some seeds against a tree. The catapult is shown below. What should she do if she wants to increase the force of her shots?



- (1) She should use less effort to pull the elastic band.
- (2) She should use more effort to pull the elastic band
- (3) She should extend the length of the wooden handles
- (4) She should shorten the length of the wooden handless ----

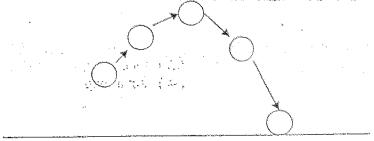
Dolphin, Platypus, Goat, Zebra

The above animals can be grouped together because they

(1) live on land

6.

- (2) give birth to their young
- (3) are herbivores
- (4) have an outer covering of hair
- 7. Marcus throws a ball-upwards. It reaches a maximum height then falls to the ground.



Which of the following statements about the moving ball is true?

- (1) Gravity acts on the ball throughout.
- (2) When the ball reaches its maximum height, there is no force acting on it.
- (3) When the ball reaches its maximum height, gravity begins to act on it.

- 8..... Which group of animals belong to a pond community?
 - (1) guppy, water snail, dragonfly nymph
 - (2) snail, slug, mealy bug
 - (3) butterfly, bee, ant
 - (4) ant, earthworm, millipede
- 9. Which of the following statements about decomposers and decomposition are true?
 - (A) They break down dead animals into simple substances....
 - (B) During the process of decomposition, carbon dioxide is given out.)
 - (C) Snails, earthworms and termites are decomposers. Disolated (A)
 - (D) Decomposers prevent dead animals from piling up.
 - (1) A, B and C only
- (2) B, C and D only
- (3) A, B and D only
- (4) All of the above
- 10. Which of the following is classified wrongly?

ATTENDED.	Group X	Group Y	
A spinished	wooden door	overhead transparency	
1	to the wibook was same	glassia	
1	brick	canvas bag	

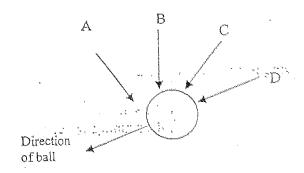
(1) glass

(2) brick

(3) book

(4) canvas bag

11.



A force is applied from 4 directions. Which one (A, B, C or D) will cause the ball to move in the direction as shown above?

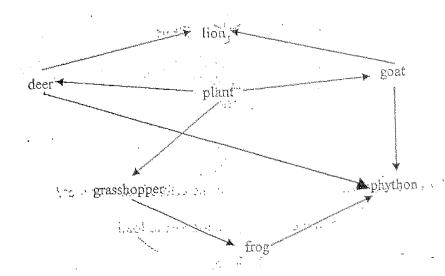
(1)A

(2)B

(3)C

(4)D

12.



How many food chains are there in the food web shown above?

(1).2

-(2)3

(3)5

 $(4)^{7}$

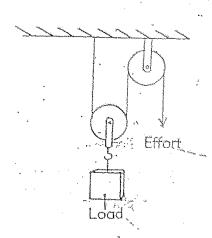
- 13. Which of the following is not a source of energy?
 - (1) moving air

(2) sun

(3) moving clouds

(4.) running water

14.

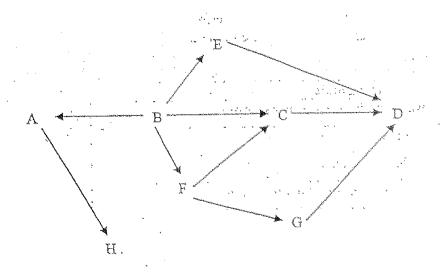


Which of the following statements about the effort is/are correct?

- (A) The effort moves in the same direction as the load.
- (B) The effort used is less than the load.
- (C) The distance moved by the effort is longer than that of the load.
- (D) Effort = $\frac{Load}{2}$
- (1) A only
- (3) B, C and D only

- (2) A and B only
- (4) All of the above

- 15. A clock needs 2 batteries in order to work. Which one of the following shows correctly the change of energy in the clock?
 - (1) Kinetic energy———>Chemical energy——>Electrical energy
 - (2) Chemical energy >Kinetic energy >Electrical energy
 - (3) Chemical energy >Electrical energy Kinetic energy
 - (4) Electrical energy Chemical energy Kinetic energy
- 16. Letters A to H in the food web below represent living things.



Which of the following prediction is correct?

- (1) When population F decreases, populations C and G will increase.
- (2) When population B decreases, populations C, E and F will increase.
- (3) When population C increases, population D will decrease.
- (4) When population D increases, populations C, E and G will decrease.

(A) air (B); fle	spaces	ng characteristics help (s) water hyacinth	to float on water	
(1) A onl		(2) A and B only (4) B and C only			
18. Which of by break (1) Fung. (2) Moul. (3) Bacte (4) Term	ing the dead i id eria	lowing organisms help t organism into smaller p	o speed up the prieces?	ocess of decomp	osition
19. The fo	llowing aqua group of ani	tic animals are grouped mals does not breathe in	according to thei the same way?	r breathing adap	tations
,	Acres	ic animals	ندېدون کې د د د د د د د د د د د د د د د د د د		
(1)		tick insect, water scorpi	.O.M		
(2)		worm, tadpole	W A		
-			war and the state of the state	and the second s	
(3)		rood louse	And the second s		
(4)	water s	pider, great diving beet	E.	and the second second	

20.	Trees in	the rai	inforest	have	leaves	growing	only	at the	top	of the	trees.	This	is
	because	المتعدد المتعدد المتعدد المتعدد المتعدد المتعدد	A						1				

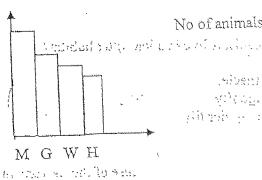
- they compete with one another for rain water
 they compete with one another for sunlight
 the leaves do not grow well at the bottom
 the tree has lesser leaves to reduce the loss of water through transpiration

21. Study the food chain below.

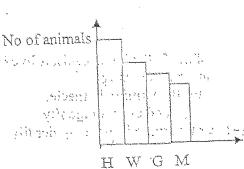
maize plant grasshopper wren haw

Which of the following graphs represents the above food chain?

No of animals



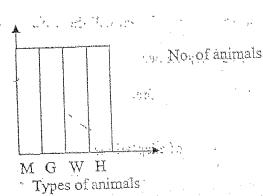
Types of animals Graph A



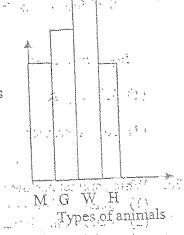
Types of animals.

Graph B

No. of animals



Graph C.



M Maize;plant:
G Grasshopper
W Wren:
H Hawk:

Graph D

$$(1)$$
 A

	•			
22. Which of the following	and after a tente surill	not grow well i	n a very mu	ddy pond?
(1) water moss fem	giano piano win		and the control of th	erali era era e
	•	. :		
(2) water filly	. *			
(3) water lettuce (3)	a.			
(4) tape grass				
		· ·	a +	
23. Which of the following	Ti Avil amaicence	a leaf litter habi	tat?	
23. Which of the following	Organisms II.om	the Version of Continue of Street		_
(1) ant, scorpion, slu	i: inamacles			
(2) butterfly, termite,	droganfly		· ·	•
(3) snail, woodlouse,	ande enider lilv		*	"
(4) earthworm, millig	jeac, spiaci my	,		
		* 4		
24. We experience day and	night on the Earth	hecause of the	movement o	f
(1) the Sun around the	n Farth			,
(1) the Suit around (2) the Earth on its o	who aris.		e e	
(3) the Earth round t	he Sun			e e e e e e e e e e e e e e e e e e e
(4) the Moon on the	Farth's axis			
(4) me mon on an	April 11 Control			
· · · · · · · · · · · · · · · · · · ·	•		•••	
25. If May sees a full moo	m on 15th August.	When will she s	ee a full mo	on again?
1	•		پاک د کیون	·
(1) 31 st August	(2) 5 th Septemb	er .	r	
(4) 23/12/2017				
(3) 20th September	(4) 12 th Septer	nber ,		

	The state of the s	, , , , ,	ī	
26. Which animal has th	e correct form of a	idaptation?		
(1) camel - bristles	on its feet			
(2) whale blow ho	oles in its head		* · · · · · · · · · · · · · · · · · · ·	
(3) mudskipper – lu	angs for breathing			
(4) birds - compact	bones	¥		
(1) 0230 1111				
				*
27. What are the condition	ons needed for a se	ed to germinate	? .	
(A) water [44]	1 An			
(B) oxygen				•
(C) warm;				
(D) sunlight		*		•
(L) SUUCELL				

(2) A and B only

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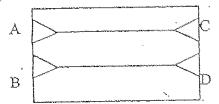
(1) A only

- 28. Which of the following factors will directly affect the population of lions in a community?
 - (A) Presence of herbivores
 - (B) Lack of water
 - (C) The amount of sunlight,
 - (D) The size of a habitat
 - (1) A only
- (2) A and B only
- (3) A, B and C only
- (4) A, B and D only
- 29. A circuit card is tested with a circuit tester. The results are recorded as follows:

•	The second secon	è
Clips tested	Bulb of circuit tester	
A and C	Lights.upermittered of the	ř
A and Decree 1.	: Does not light up : hours a	1
B and C	Lights up	1
B and D	Does not light up	-
C and D	Does not light up	į

Which is the circuit card tested?

(1)



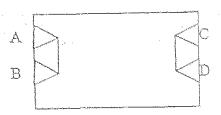
(2)







(4)



30. The table below shows the properties of cells X, Y and Z.

				· · · · · · · · · · · · · · · · · · ·
A CONTRACTOR OF THE PROPERTY O	X	Y		
Cytoplasm	· \ \ \ : '			
Cell membrane	Washington Company of the Company of	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No.	
Nucleus /	<u> </u>	1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	and the second	d State)
Cell wall	The proof of	and the second second		
Sap	V.	* ·		•
chloroplasts :	Activities of the second secon	The state of the s		2.25

-	•				
The following students	make the following conci	usions: ,			ч.
(A) Alice: Only cell X	is plant cell	4. J. J. S. MER J. S.	· · · · · · · · · · · · · · · · · ·		
(B) Betty: Cell X and	Y are plant cells. Cell Z is:	an animal cel	Rid		
(C) Candice: We canno	ot determine if Z is plant o	ranimal cell	from the infor	mátion	given
(D) Deborah: All the s	ells are plant cells.	w · ·			F. 3
	ا الله الله الله الله الله الله الله ال	g w 1	•		
Which one of the state	ment(s) is/are correct?	*	y to p take		• -
	201 Ad A				
(1) A only	(2) B only				

(3) A and B only (4) C and D only

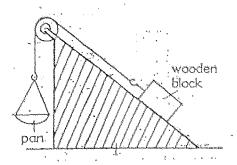
Name	
Class	The consequent of the second o
Section B Fill in the blan	iks with the correct answers.
31. Consti	uct a simple food chain with 4 of the organisms given in the box. [2
ه ده استان پختیان ده و در پختیان می وی وی	dragonfly, banana, deer
ر مدرس رج مدرس ا ا	fruitfly frog stage snake
The second secon	
32. David	set up the apparatus as shown.
	retort stand cup
(a)	What prevents the cup from falling? [1]
(. b.).	What happens when the string is cut? [1-]
. (ć)	Name the force that makes the cup fall. [1]

33. Classify the following plants into 3 groups. [3 marks]

elodea.	water hyacinth	duckweed	
water banana	hydrilla	cattail	

Fully Submerged	Partially Submerged	Floating
	The state of the s	
de d		
amang maligagang nggan agam agam ag mag nggapang Nganggang ng ang nggapan an a	and the state of t	Australian State Anni Land State (1997) (Australian Land State Anni Anni Anni Anni Anni Anni Anni Ann

A ramp is set up as shown. The surface is lined with sand paper first. A wooden block is tied to a string and made to move up the surface by adding marbles one at a time to the pan. The experiment is repeated on a surface which is lined with wax paper.

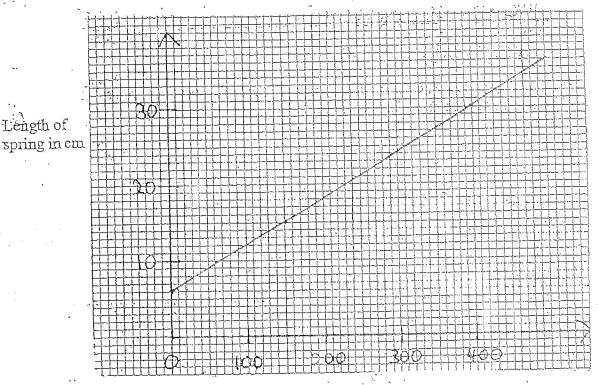


- (a) On which surface would the block require more marbles to move up the same distance on the ramp? [1]
- (b) Give a reason for your answer in (a). [2].

35.	Name 2 factors that will affect the population in a con	mmi	mită.	[2	1.	
	(a),		<u>ور در ا</u> ستان استان است	describes when		
	(%)	b	£.,			

36... John recorded the length of a spring when various weights are hung on the spring balance. From the information gathered, he plotted the graph below.

Study the graph and answer the following questions.



Weight in grams

(a) What is the original length of the spring? [1]

(b) What was the extension of the spring when a weight of 150g was attached? [1]

(c) What do you think will be the extension of the spring when a weight of 400g is attached? [1]

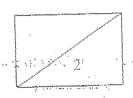
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gang — —————————————————————————————————	na kanadan peranggan dan dianggan dan dianggan dan dianggan dan dianggan dianggan dianggan dianggan dianggan d		and the control of th	
(b) Name another aqua	: tic organism that l	has the same	ađaptation. [1]	* " "
	· ·			
gergegen in the state of the st	ئىلىنىغەلىمىلىقىلىنىڭ ئېرىن. ئىلىنىغەلىمىلىقىلىنىڭ ئېرىن <u>ئىلىنى</u> نىڭ ئىلىنىڭ ئېزىنىڭ ئېزىنىڭ بايىنىنىيىنىڭ 19. ئىڭ 19. ئىڭ 19. ئىلىنىنىڭ	and the second section of the second section section is a second section of the s	أحداث المراجعة المراج	المساوية والمقاولة في المستقولة والمستقولة و
Four objects, A, B, C,	D are weighed on	four equal-a	rined balances	as shown below.
Arrange them in ascer	iding order of their	r weights: [2]		
	The second secon	Annual Company	or the second	= E
		**	" Company and Company of the Company	6
and the state of t	And the second s			William Co.
and the same of th		and the second second		
$A \setminus A \setminus A \setminus A$		B-\-		
	4		in the second	• •
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not provide the state of the st	/B \		and the state of t	. <u>(A)</u>
and the state of t			in the state of th	
and the state of t		Name of the last o	And the second s	•
C		1		
10 10 10 10 10 10 10 10 10 10 10 10 10 1	A CONTRACTOR OF THE PROPERTY O	د آ در کارو سسان	and a second	ىرىنىيەر ئىدىنىيىلىنىڭ ئارىنىيىلىنىڭ ئارىنىيىلىنىڭ ئارىنىيىلىنىڭ ئارىنىيىلىنىڭ ئارىنىيىلىنىڭ ئارىنىيىلىنىڭ ئار مەم
Vrite your answer in the I	ooxes provided be	low:	rri .	·
Ist	2 nd	3	The second	4th
			<u> </u>	N CONTRACTOR CONTRACTO
	•	et .*		•

39. The table below shows the various stages of the life cycle of a flowering plant.

		the second secon
Ì	A	Growth of roots and leaves
	В	Development of flowers
	С	Germination of seed
	D	Dispersal of fruit and seed
	Е	Development of seed

Arrange them in the correct order by writing down the letters A to D n the boxes. [2] The last stage has been done for you.

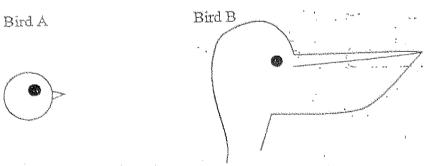
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Į st ,		. ,		,
2 nd		-		,
310	-			
4 th	View -			
5 th		E	es any vapor	



40. A plastic cylinder was rolled over on four different platforms of equal lengths using the same amount of force. The distances travelled by the cylinder before coming to rest are shown in the table below.

	The second secon
Platform	Distance travelled (cm)
A	200
B	133
·C	- 300
	-265

- (i) Which platform has the roughest surface? [1]
- (ii) Explain your answer in (i)? [1]
- 41. The quagram below snows birds.



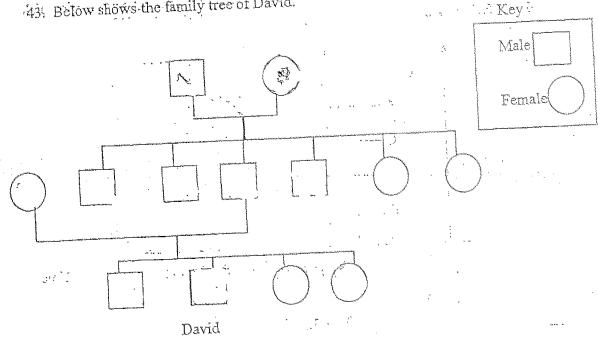
(a) Draw lines to match the bird with the food they eat. [1]



(b) Explain how the beak of B is adapted to the bird's diet. [1]

42. List two reasons why polar bears are not adapted to live in the desert. [2]

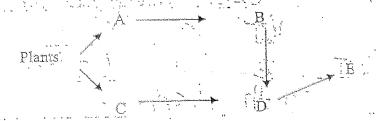
43. Below shows the family tree of David.



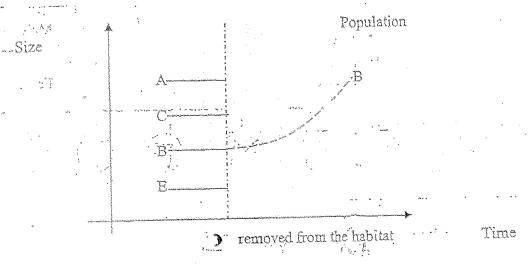
. (a) How many uncles does David have? [1]

(b) Shade the figure that represents his grandmother in the family tree shown. [1]

44. Study the food web below. A, B, C, D and E are animals.



a) If population D is removed from the habitat, how will if affect the population of A C and E? Draw the lines to show the change in population size. [3]

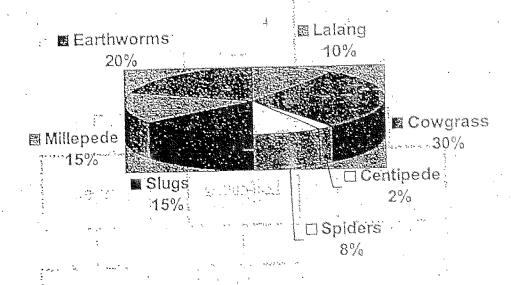


b) Explain why you draw line C this way. [2]



45. The pie chart below shows the number of living things expressed as a percentage, in a community:

Look at the statements below. Base your answer only on what you can gather from the pie chart below. Put a tick in the correct column. [2]



have a	The state of the s	** - #-	100 × 100 10		Not possible to
No.	Statements	. 4.	Frue ()	- Faise	tell
1.	The population of the herbivor times the size of the carnivore	res is 5. s.			
2.	These living organisms can be in the garden.	found			
.3	. The spiders prey on the ants.	والمنافئة			
4.	There are 10% more food prothan food consumers.	ducers			

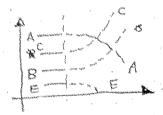
AI TONG SCHOOL 2004 SEMESTRAL ASSESSMENT 1 PRIMARY SIX SCIENCE

1) 4	27) 3
2) 4"	28) 4
3) 2	29) 3
4) 2	30) 2
5) 2	31) Banana Fruitfly Frog. Snake
6) 4	32) a) The string suspending it in mid-air.
7) 1	b) The cup will fall.
8) 1	c) Gravity.
9) 3	33) Elodea Cattail Duckweed
10) 4	Hydrilla Water Banana Water hyacinth
11) 4	34) a) The surface lined with sand paper.
12) 3	b) There is more friction between the wooden block and the sand paper.
13) 3	35) a) Amount of food
14) 3	b) The number of predators
15) 3	36) a) 6 cm
16) 4	b) 9 cm
17) 3	c) 24 cm
18) 4	37) The water helps to keep the gills wet, so
19) 2	the mudskipper can use the dissolved oxygen when the mudskipper is out of water.
20) 2	b) The crab
21) 1	38) D B A C
22) 4	39) D
23) 1	C
24) 2	A
25) 4	B
26) 2	

- 40) a) Platform B
 - b) The distance the cylinder moved was shorter than on other platform.
- 41) a)
 - b) Its beak helps it to scoop up fish from the water to
- 42) It has thick fur that traps heat and it will be too hot for it.
 - b) They have stiff hairs on the soles of their feet, so their feet will be burnt inthe desert.
- 43) a) David has three uncles.

b)

44) a)



- b) There are lesser D to eat C so C increases.
- 45) 1) True
 - 2)Not possible to tell . .
 - 3) Not possible to tell
 - 4) False
- 46) African Onion Maiden hair fern violet

Sansevieria