



RAFFLES GIRLS' PRIMARY SCHOOL

SEMESTRAL ASSESSMENT (1) 2013

Section A	36
Section B	24
Your score out of 60 marks	
Parent's signature	

Name : _____ Index No: _____ Class: P 3 _____

7 May 2013

SCIENCE

Attn: 1 h 15min

SECTION A (18 X 2 marks)

For each question from 1 to 18, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet.

1. Which one of the following characteristics is true of all living things?

- (1) They feed on animals.
- (2) They move about freely.
- (3) They reproduce by laying eggs.
- (4) They respond to changes around them.

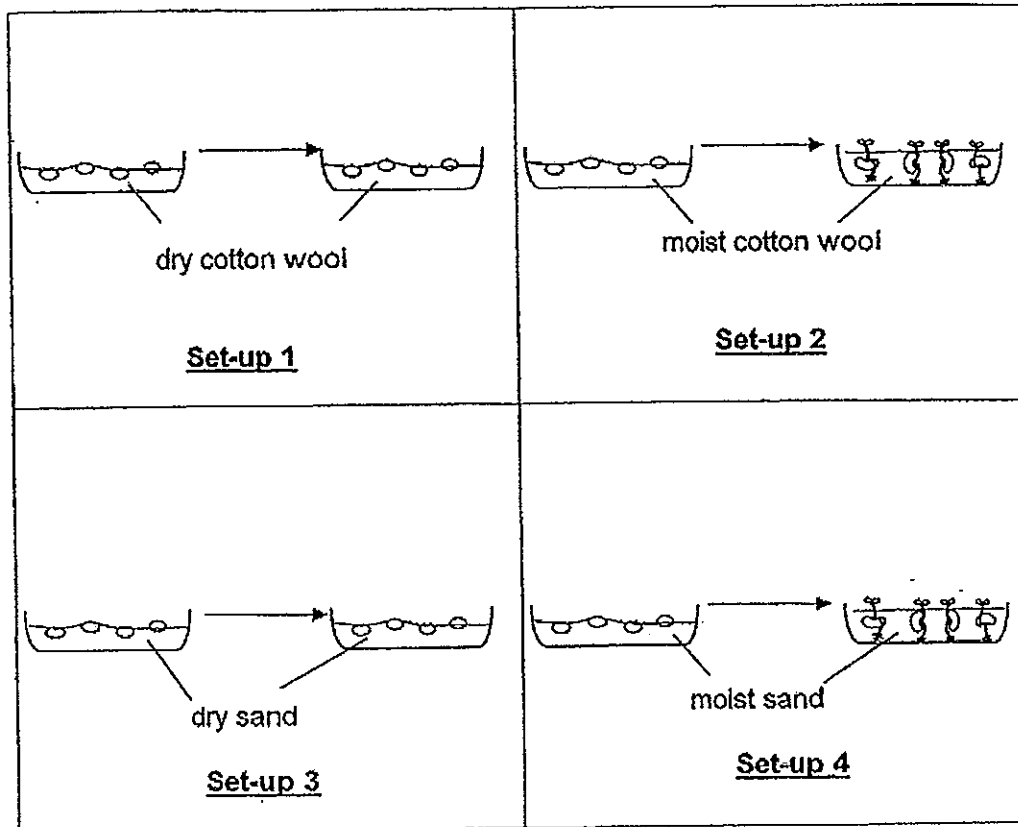
2. Which of these objects are made of things that were once alive?

- A newspaper
- glass bottle
- leather belt
- wooden bench

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



3. Sam carried out an experiment using seeds of the same type. Each was put in identical containers under a different set of conditions. The diagrams below show his observations in each set-up after 3 days.

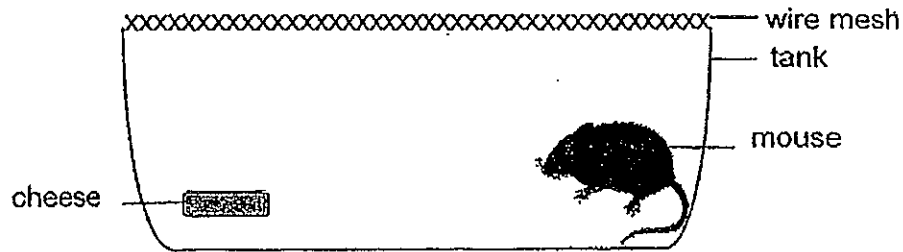


Based on the observation above, what can Sam conclude?

The seeds need _____ to germinate.

- (1) air
- (2) soil
- (3) water
- (4) cotton wool

4. Ali put a mouse in a tank. He covered it with a wire mesh as shown below.

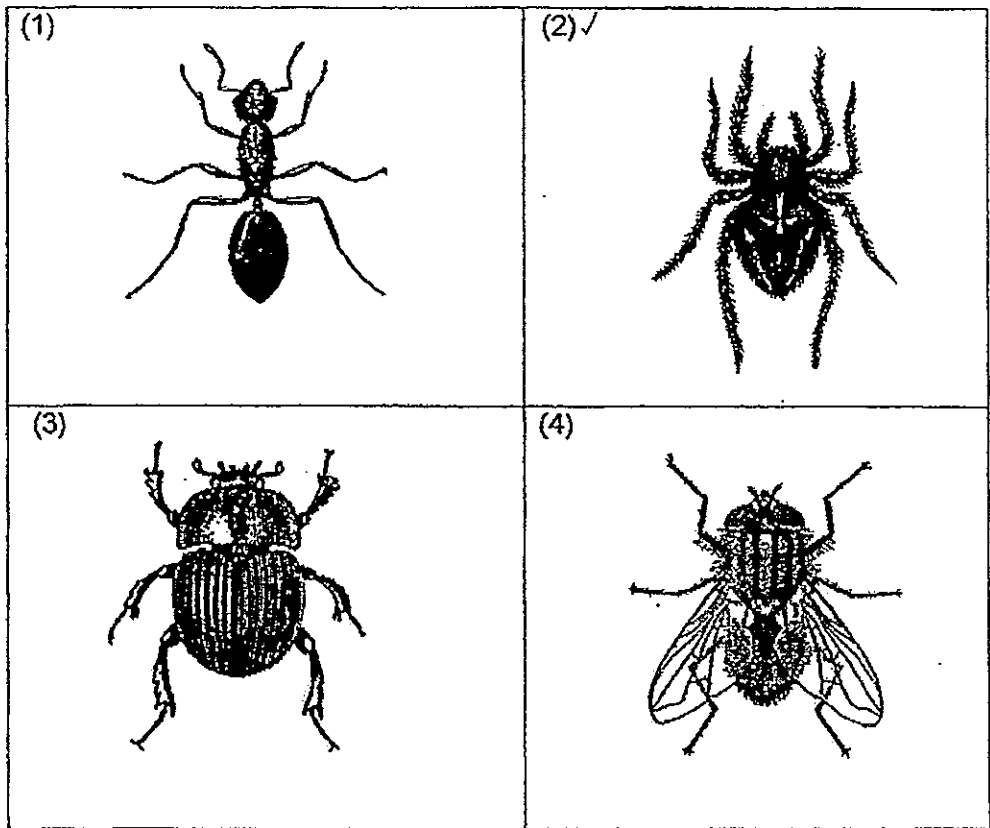


Ali placed the above set-up near the window. The mouse was only fed with cheese daily. After one week, it was observed to be dead.

Based on the above information, which of the following is most likely to be the reason for its death?

- (1) There was no water.
- (2) There was no sunlight.
- (3) There was not enough air in the tank.
- (4) There was not enough room for the mouse to move about.

5. Based on your observations of the following animals, which one of them is not an insect?



Based on the information below, answer questions 6 and 7.

Nine animals are classified into three groups as shown below.

Animals		
Group X	Group Y	Group Z
angelfish	bat	cat
silverfish	duck	deer
clownfish	penguin	platypus

6. Which of these animals are classified wrongly?

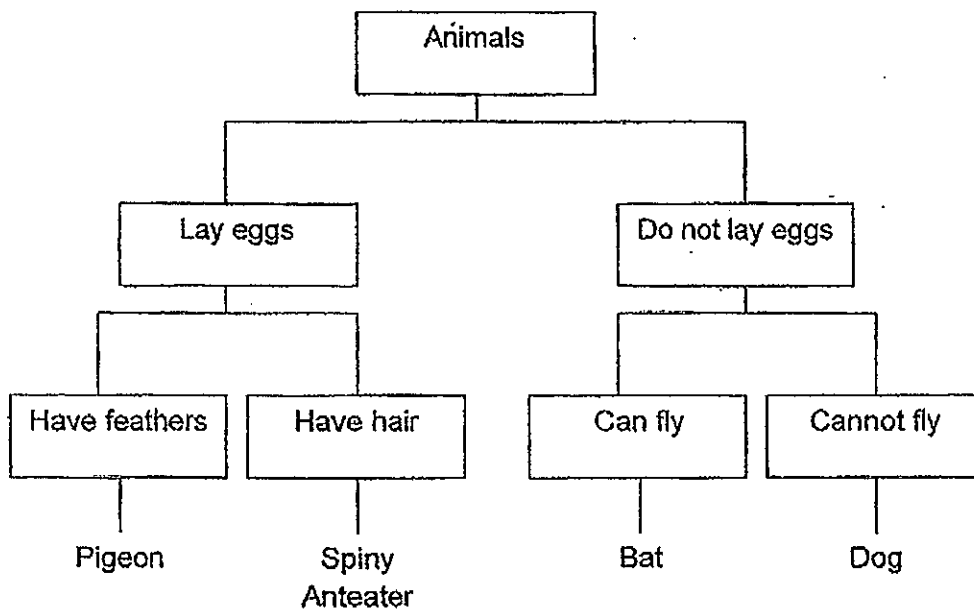
- (1) bat and platypus
- (2) silverfish and bat
- (3) silverfish and penguin
- (4) penguin and platypus

7. Which of the following characteristics is true for all animals in Group Z?

- A They have hair.
- B They give birth to live young.
- C They feed their young with milk.

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

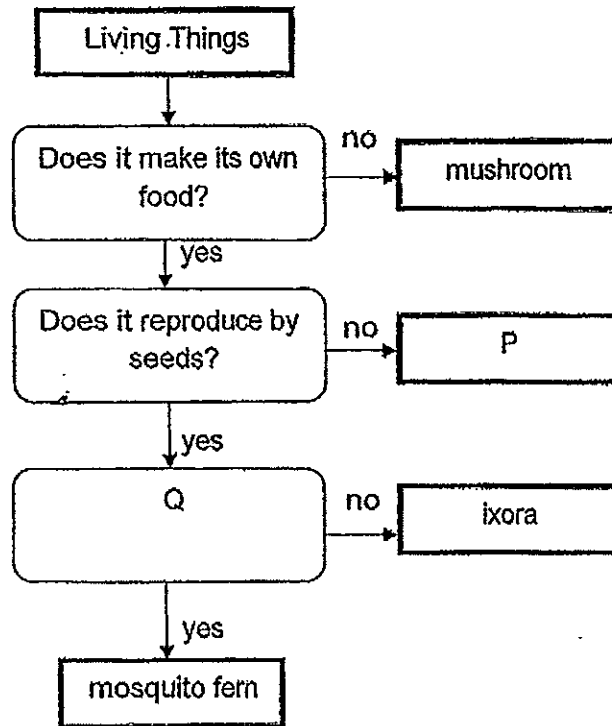
8. The table below shows how some animals can be classified.



Based on the above classification chart, which one of the following statements is most possibly true?

- (1) A bat and a spiny anteater lay eggs.
- (2) A dog and a bat move in the same manner.
- (3) A bat and a dog give birth to its young alive.
- (4) A pigeon and a spiny anteater have the same body covering.

9. The flow chart below differentiates some living things.



Which one of the following best represents P and Q respectively?

	P	Question Q
(1)	moss	Does it have brightly-coloured flowers?
(2)	tree fern	Does it have a strong stem?
(3)	sword fern	Does it grow in water?
(4)	bird's nest fern	Does it grow on land?

10. The table below shows the characteristics of plants A, B, C and D. A tick (✓) in the box indicated the characteristic of the plant.

	A	B	C	D
It bears fruit.	✓		✓	✓
It grows on land.		✓	✓	

Based on the information above, which of the following shows the correct classification of the plants A, B, C and D?

	Plants			
	Flowering		Non-flowering	
	Water	Land	Water	Land
(1)	A	C, D		B
(2)		B	A	C, D
(3)	D	B	A	C
(4)	A, D	C		B

11. Study the classification table below. Which one of the following has been grouped **incorrectly**?

	Group	Flowering plants	Non-flowering plants	Fungi
(1)	P	<ul style="list-style-type: none"> • Lantana • Maize plant 	<ul style="list-style-type: none"> • pine • moss 	<ul style="list-style-type: none"> • Yeast • bracket fungus
(2)	Q	<ul style="list-style-type: none"> • coconut palm • orchid 	<ul style="list-style-type: none"> • tree fern • sword fern 	<ul style="list-style-type: none"> • mould • toadstool
(3)	R	<ul style="list-style-type: none"> • Maize plant • mimosa 	<ul style="list-style-type: none"> • pine • Lantana 	<ul style="list-style-type: none"> • mushroom • toadstool
(4)	S	<ul style="list-style-type: none"> • coconut palm • Maize plant 	<ul style="list-style-type: none"> • pine • moss 	<ul style="list-style-type: none"> • Mould • bracket fungus

12. Ali found an organism shown below while hiking.



puffball

He described it as follows:

- A It grew on a rotting log.
- B It was white and round like a ball.
- C When pressed, some spores escaped.

Which of the above characteristic confirmed that it is a fungi?

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

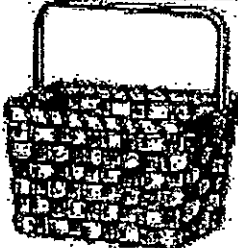


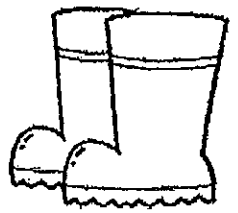
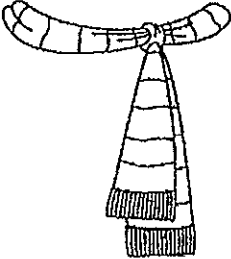

13. David placed three pieces of bread from the same loaf on a table. He arranged the bread according to the amount of mould found on them after a week.

Which one of the following is the most possible arrangement in order from the one with the most mould?

	Most mould	→	Least mould
(1)	fresh bread	moist bread	toasted bread
(2)	fresh bread	toasted bread	moist bread
(3)	moist bread	fresh bread	toasted bread
(4)	moist bread	toasted bread	fresh bread

Based on your observations, answer questions 14 and 15.

Six objects are classified into three groups as shown below.

Group A	Group B	Group C
 paper basket	 Woolen hat	 metal frying pan
 rubber boots	 silk scarf	 glass vase

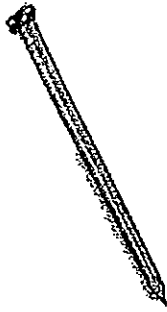
14. Objects from Group C are made from _____.

- (1) plants only
- (2) animals only
- (3) both animals and plants
- (4) things found in the ground

15. The objects from Group A and B can be grouped together.
In what way are they similar?

- (1) The objects are waterproof.
- (2) The objects can float in water.
- (3) They are made of things from the ground.
- (4) They are made of things that were once alive.

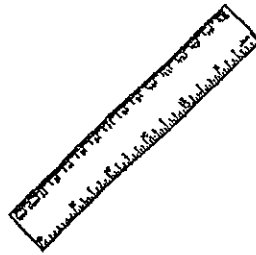
16. Sally investigated the properties of the objects below.



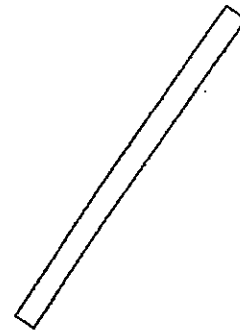
iron nail



paper clip



metal ruler



plastic drinking
straw

She made the following observations about the properties of one of the objects above.

- It can be bent easily.
- It does not absorb water.
- It can be cut easily with a pair of scissors.

Which one of the following objects did Sally observe?

- (1) iron nail
- (2) paper clip
- (3) metal ruler
- (4) plastic drinking straw

17. Tina wanted to test the hardness of 4 materials of the same size, P, Q, R and S. She used a nail to scratch on each material.

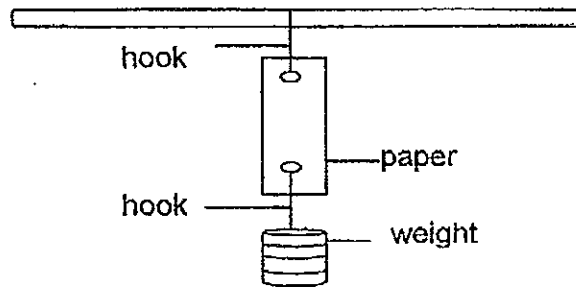
Then she recorded her observations in the table below

Material	Observation
P	a cut through material
Q	no scratches on surface
R	light scratches on surface
S	deep scratches on surface

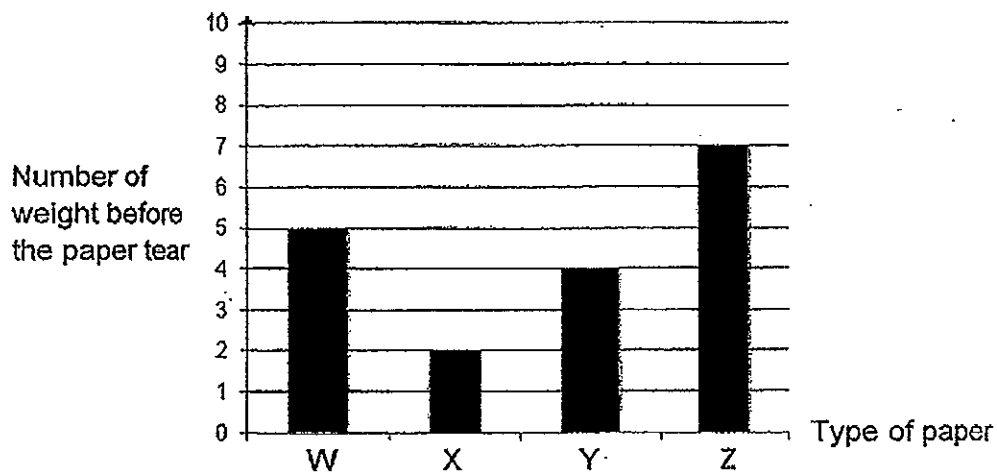
Which of the following shows the correct order of the materials from the hardest to the softest?

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

18. Sam wanted to find out the strength of 4 different types of paper, W, X, Y and Z of the same size. He hung each piece of paper, one at a time, using the following set-up as shown below.



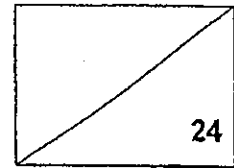
Sam added one weight at a time to the hook until the paper started to tear and recorded his results as shown in the graph below.



Based on the information above, which of the following statements are correct?

- A Y is stronger than Z.
- B Z is the strongest paper.
- C W is stronger than X and Y.
- D X is stronger than W and Y.

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

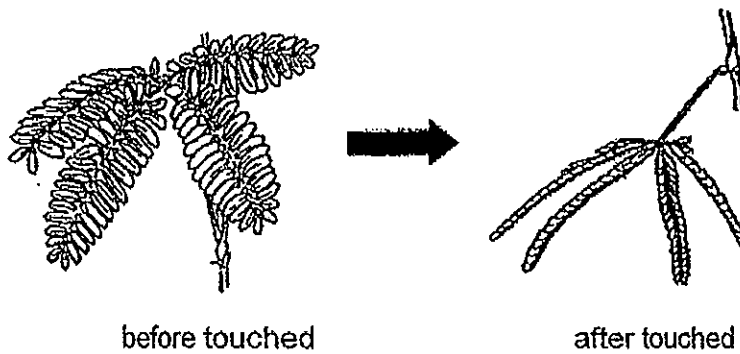


Name : _____ Index No: _____ Class: Primary 3 _____

SECTION B (24 marks)

For questions 19 to 30, write your answers clearly in the spaces provided.
The number of marks available is shown in the brackets [] at the end of each question or part question.

19. The leaves of a mimosa plant close when touched.

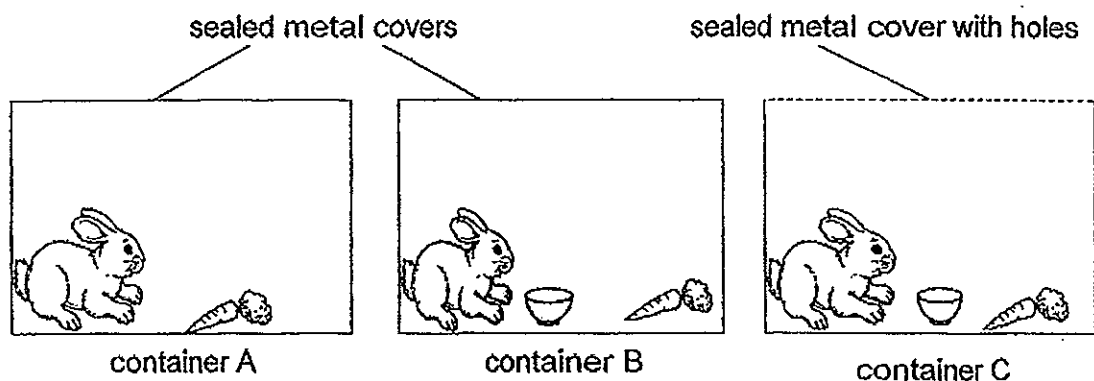


(a) Based on the above observation, state a characteristic of living thing which is shown by the mimosa plant. [1]

(b) After one month, the leaves on the mimosa plant increased in size. What characteristic of living thing does this observation show? [1]

Score	
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20. David put a rabbit in each containers, A, B and C, as shown in the diagram below. He placed a carrot in all the containers and a bowl of water in container B and C only.



- (a) Based on the information above, answer the following questions: [1]
In which container would the rabbit live the longest? Explain your answer.

Container	Explanation

- (b) What do you think will happen to the rabbits if all the containers above were filled with water up to the brim? Give a reason for your answer. [1]

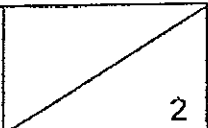
Score	2
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21. Some scientists discovered an animal X. They observed that the animal X bears the following characteristics:

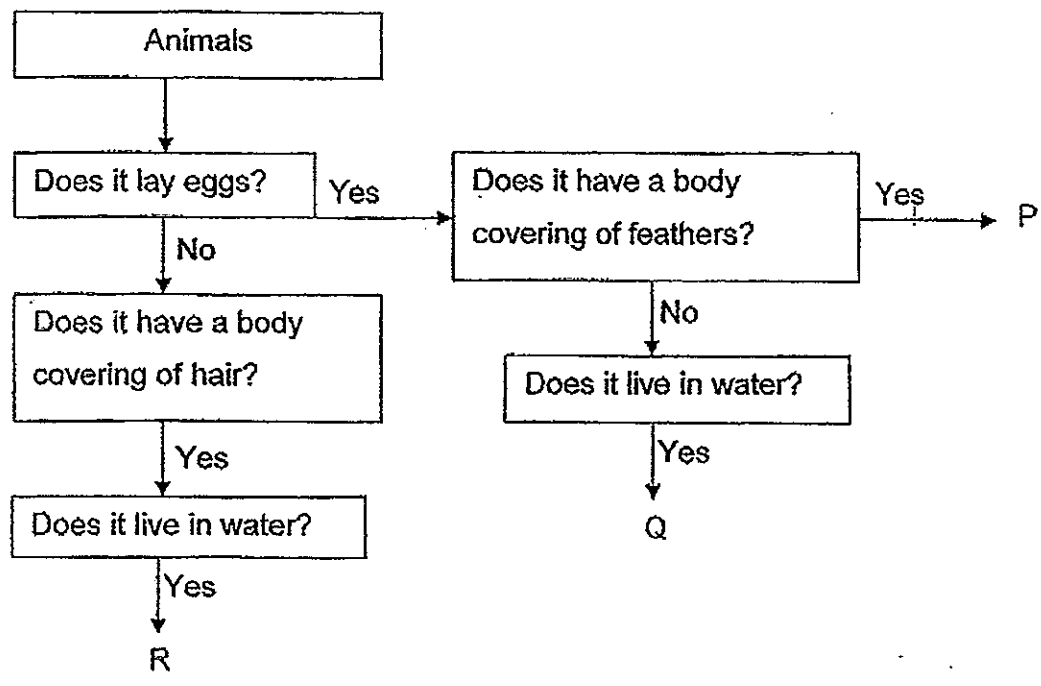
- It lays eggs.
- It lives in water.
- It feeds its young with milk.
- It has a body covering of hair.

(a) Based on the information above, which animal group would the animal X most likely belong to? [1]

(b) Explain your answer in (a) clearly. [1]

Score	
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22. The flow chart below shows how the animals P, Q and R are classified.



[1]

(a) Based on the information above, which animal, P, Q or R, is a bird?
State a reason for your answer.

Animal	Reason
_____	<hr/> <hr/>

Give an example of each of the following:

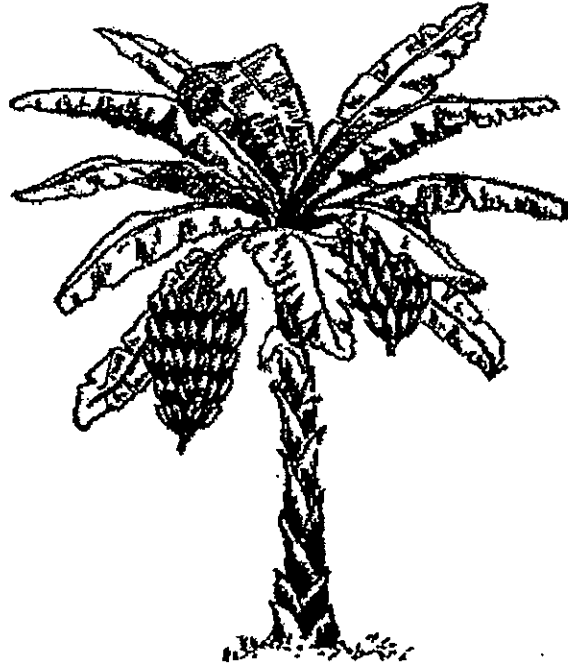
(b) Animal R: _____

Animal Q: _____

[2]

Score	
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23. The diagram below shows a banana plant.



Banana tree

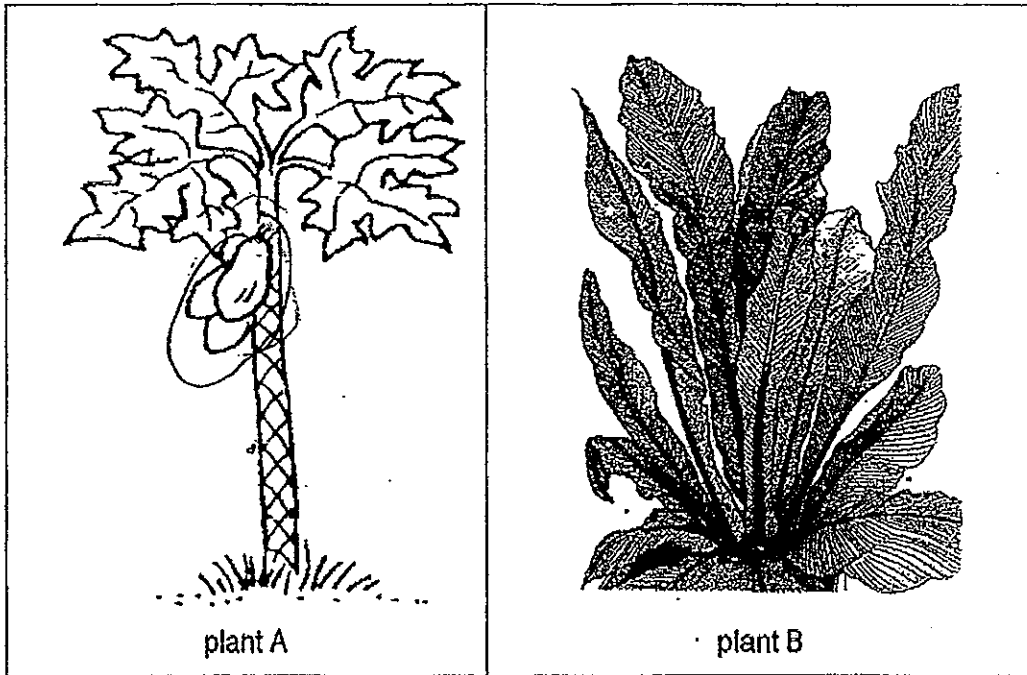
The following are the characteristics of the banana tree. Put a tick (✓) in the correct box below.

[2]

	Characteristic	True	False	Not possible to tell
(a)	It does not need support to grow upright.			
(b)	It is a water plant.			
(c)	It makes its own food.			
(d)	It is a flowering plant.			

Score	2
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24. The pictures below shows 2 different plants, A and B, not drawn to scale.



Based on your **observation** of the plants above, state one similarity and one difference between the plants. [Do not mention the size and shape] [2]

Similarity	<hr/> <hr/> <hr/>
Difference	<hr/> <hr/> <hr/>

Score	2
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25. Sally observed some plants and classified them in the table below.

Group X	Group Y
rose plant tulip plant orchid plant	moss bamboo bird's nest fern

(a) Name the plant which Sally classified incorrectly. Give a reason for your answer. [1]

Plant	Reason

(b) Name another plant that can be classified under group Y.

Score	2
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26. Tim had a slice of raw fish for dinner and it caused him to suffer from a stomachache. The doctor said it was due to a type of organism present in the raw fish.

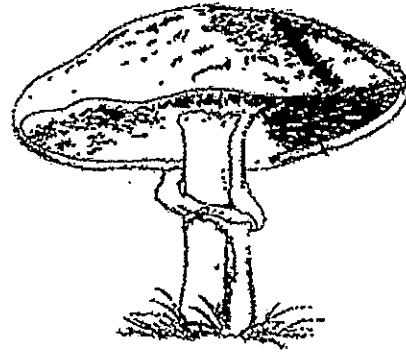
(a) What group of organisms is most likely to be responsible for Tim's ^{stomachache} stomachache? [1]

(b) State one way in which the group of organisms mentioned in (a) can also be useful to man. [1]

27. The pictures below show a fern and a mushroom, not drawn to scale.



fern



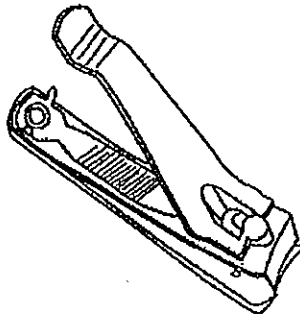
mushroom

(a) In the diagram above, label with an "X" to show the part of the mushroom where spores are found. [1]

(b) Can fern make its own food? Give a reason for your answer. [1]

Score	
	4

28. (a) The picture below shows a nail clipper which is made of a type of material.



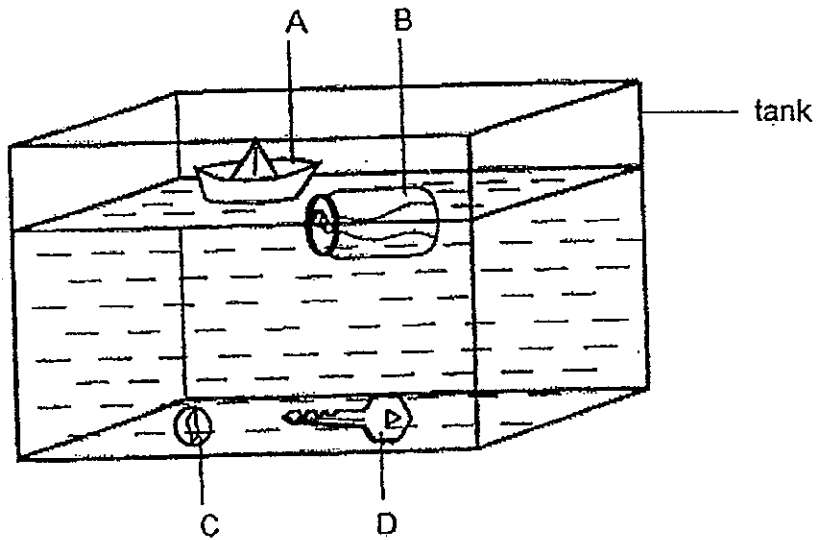
Name the material that is used to make the nail clipper. State two properties of the material that is taken into consideration to make the nail clipper.

[1]

Material	Properties
<hr/>	<hr/> <hr/>

Score	<hr/> 1
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29. The picture below shows the various positions of objects A, B, C and D when they were put in a tank of water.

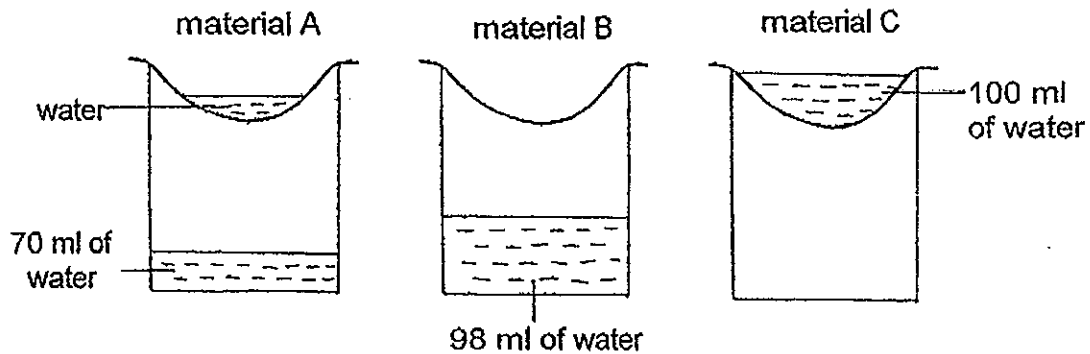


Based on your observations, complete the classification with objects A, B, C and D. [2]

Objects	
Float	Sink

Score	2
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30. Mr Lee is a shoe manufacturer. He wants to select the best material that will keep the feet dry during rainy days. He placed an identical size of material A, B and C over each container respectively. Next, 100 ml of water was poured over each material. The amount of water collected in each container after 5 minutes is shown in the diagrams below.



Based on the information above, answer the following questions:

- (a) Which materials, A, B or C, should Mr Lee choose to make the shoes? Give a reason for your answer. [1]

Material	Reason

- (b) Which material, A, B, or C, is most suitable to make into a coffee filter bag to separate the coffee from the coffee powder most effectively. Explain your answer clearly. [1]

Material	Explanation

- END OF PAPER -

Score	2
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ANSWER SHEET

EXAM PAPER 2013

SCHOOL : RAFFLES GIRLS' PRIMARY SCHOOL

SUBJECT : PRIMARY 3 SCIENCE

TERM : SA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
4	3	3	1	2	2	3	3	3	4	3	3	3	4	4	4	3

Q18
2

Section B

Q19

- a) Living things respond to changes around them
- b) Living things can grow

Q20

a)

Container	Explanation
C	The rabbit has enough air, water and food to survive

b) The rabbit will die as they have no air

Q21

- a) Mammals
- b) Animal X has hair and it feeds its young with milk

Q22

a)

Animal	Reason
P	A bird lays eggs and has feather as body covering

- b) Animal R: Dolphin
 Animal Q: Platypus

Q23

	Characteristic	True	False	Not possible to tell
(a)	It does not need support to grow upright			✓
(b)	It is a water plant		✓	
(c)	It makes its own food	✓		
(d)	It is a flowering plant	✓		

Q24

Similarity	They both have leaves
Difference	Plant A bears fruit while plant B does not bear fruits

Q25

a)

Plant	Reason
Bamboo	Bamboo is a flowering plant

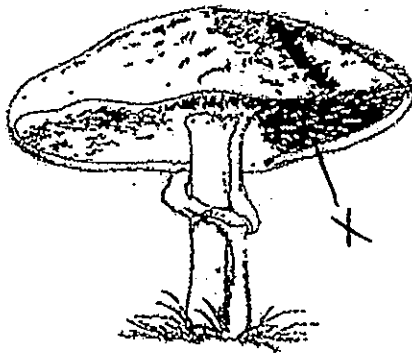
b) Sword fern

Q26

- a) Bacteria
 b) It can help your food be digested

Q27

a)



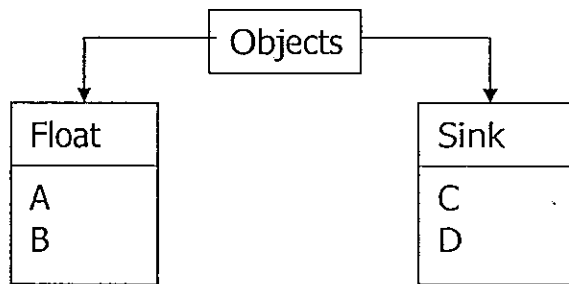
mushroom

b) Yes, it can make its own food in the presence of light

Q28

Material	Properties
Steel	It is hard and strong

Q29



Q30

a)

Material	Reason
C	It is waterproof

b)

Material	Reason
B	Material B allows most of the water to pass through

