



RED SWASTIKA SCHOOL

RED SWASTIKA SCHOOL

2010 SEMESTRAL ASSESSMENT 1

SCIENCE

Name : _____ ()

Class : Primary 3/ _____

Date : 13 May 2010

BOOKLET A

30 Questions

60 Marks

Duration of Paper : 1 h 30 min

Note:

1. Do not open this Booklet until you are told to do so.
2. Questions 1 to 30 are to be done on the OAS provided.
3. Read carefully the instructions given at the beginning of each part of the Booklet.
4. Do not waste time. If a question is difficult for you, go on to the next one.
5. Check your answers thoroughly and make sure you attempt every question.

Section A: Multiple Choice Questions : (30 Questions X 2 marks each = 60 marks)

Read the questions carefully. Choose the most suitable answer and shade it in the OAS provided.

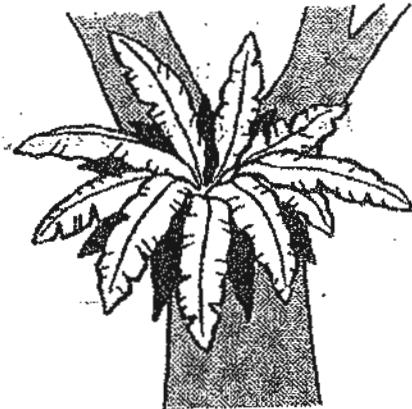
1 What kind of outer covering do mammals have?

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

2 Which of the following statements does **not** describe all living things?

- (1) They can move.
- (2) They have young.
- (3) They need air and water.
- (4) They can make their own food.

3 The picture below shows a Bird's Nest Fern.



It reproduces by _____.

- (1) seeds
- (2) spores
- (3) laying eggs
- (4) giving birth to young alive





4 Which of the following is a fish?

- (1) Silverfish
- (2) Goldfish
- (3) Kingfisher
- (4) Fisherman

5 Which one of the characteristics is used **only** to describe birds?

- (1) They can fly.
- (2) They lay eggs.
- (3) They have wings.
- (4) They have feathers.

6 Which one of the following reproduces differently from the rest?

<p>(1) Guppy</p> 	<p>(2) Ostrich</p> 
<p>(3) Platypus</p> 	<p>(4) Grasshopper</p> 

7 Some bacteria are useful to humans because they can _____.

- (1) cause sicknesses
- (2) make their own food
- (3) move by themselves
- (4) be used to produce food

8 Animals reproduce so that _____.

- (1) others can eat their young
- (2) their kind will always be around
- (3) they will continue to grow bigger
- (4) they can take care of each other

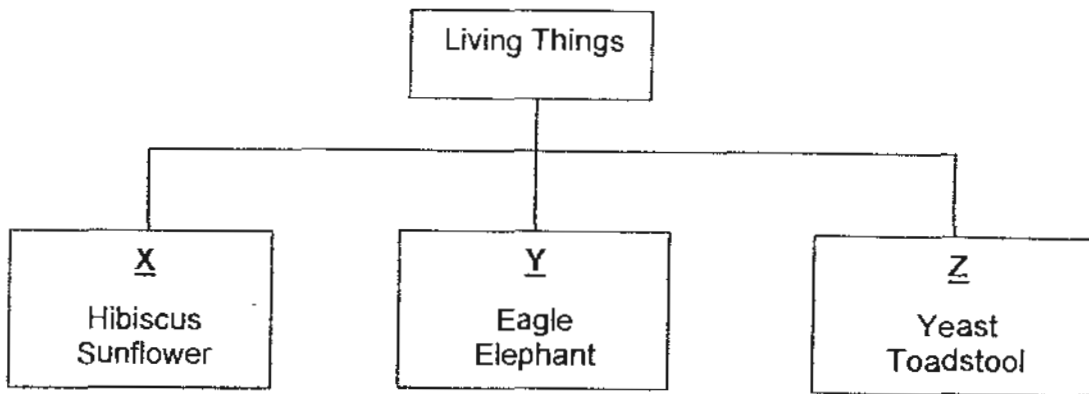
9 Timmy observed three different types of plants, P, Q and R for a year. He recorded the number of flowers each of them produces.

Plant	Number of flowers	
	1 st half of the year	2 nd half of the year
P	58	60
Q	0	0
R	0	5

Based on the table above, which of the following shows the correct conclusion about P, Q and R?

	P	Q	R
(1)	Flowering plant	Cannot conclude	Flowering plant
(2)	Flowering plant	Non-flowering plant	Non-flowering plant
(3)	Flowering plant	Cannot conclude	Cannot conclude
(4)	Cannot conclude	Non-flowering plant	Flowering plant

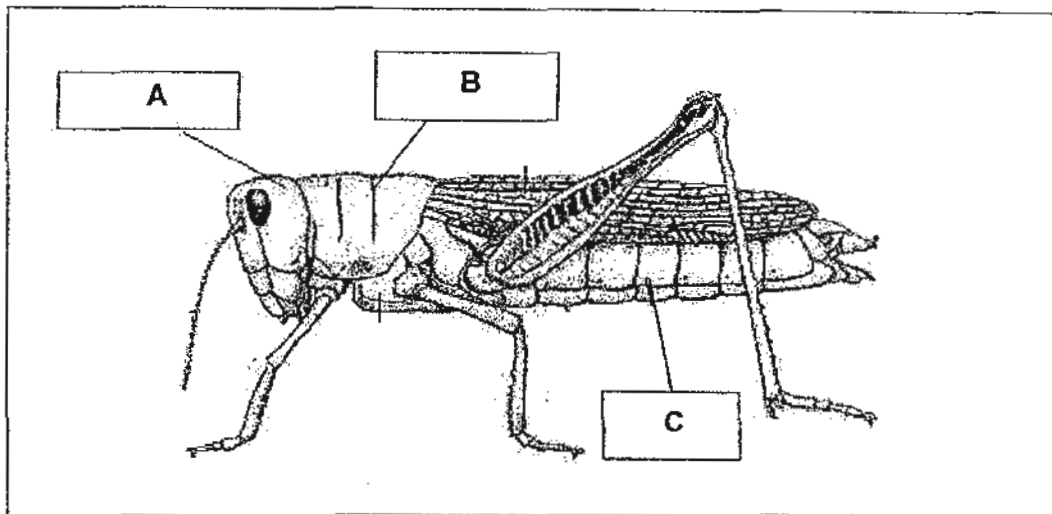
10 The following living things are classified as shown below.



Which of the following does 'X', 'Y' and 'Z' represent?

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

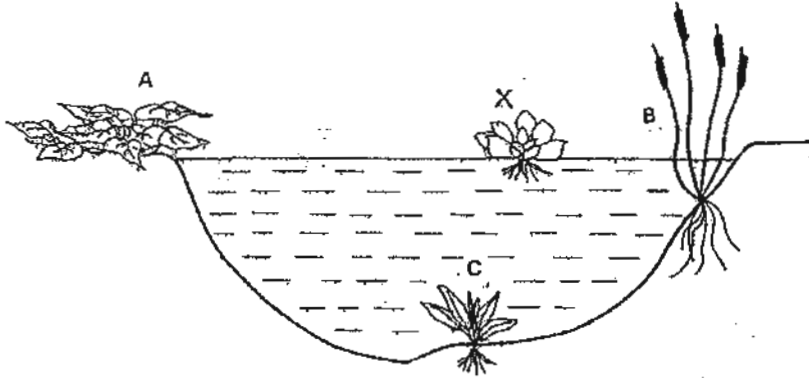
11



Which of the following shows the correct labels of the different parts of this animal?

	A	B	C
(1)	head	thorax	abdomen
(2)	head	abdomen	thorax
(3)	antenna	body	wings
(4)	antenna	wings	abdomen

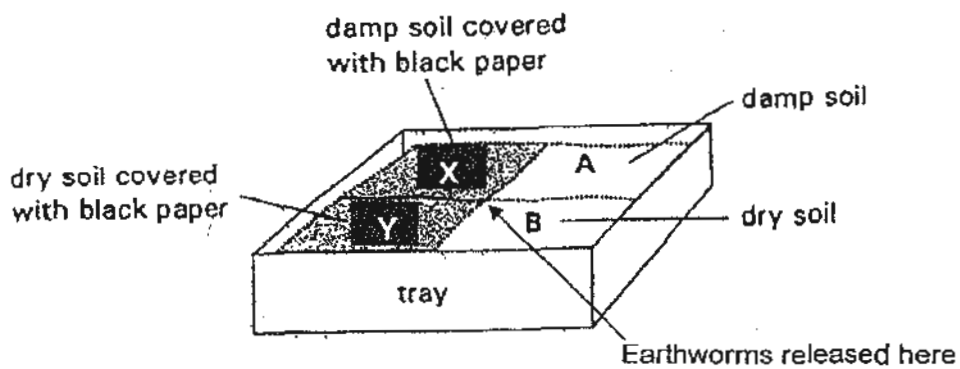
12



The diagram above shows four plants A, B, C and X growing in and around a pond. Which plant(s) would not grow well if plant X reproduces quickly to cover the surface of the pond?

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

13 The picture shows a tray of soil which is divided into four sections A, B, X and Y. Some earthworms are released into the centre of the tray. Earthworms prefer dark and damp areas. After some time, where would most earthworms likely be found?

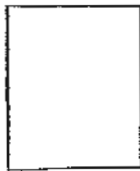


- (1) A only
- (2) B only
- (3) X only
- (4) Y only

- 14 Ali has a plant. He wanted to test how plants respond to changes. He put the plant in a box and watered it daily. After nine days, Ali drew a picture of how the plant looked as shown below.



Which one of the following boxes did he use?



Box W



Box X



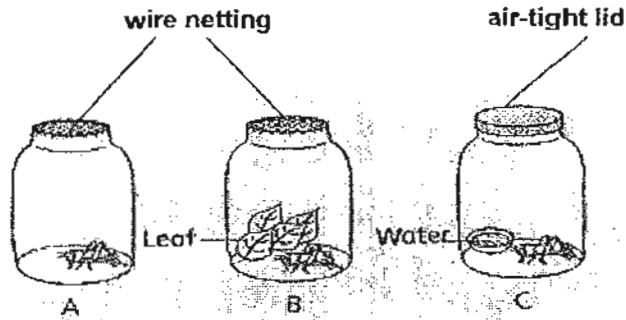
Box Y



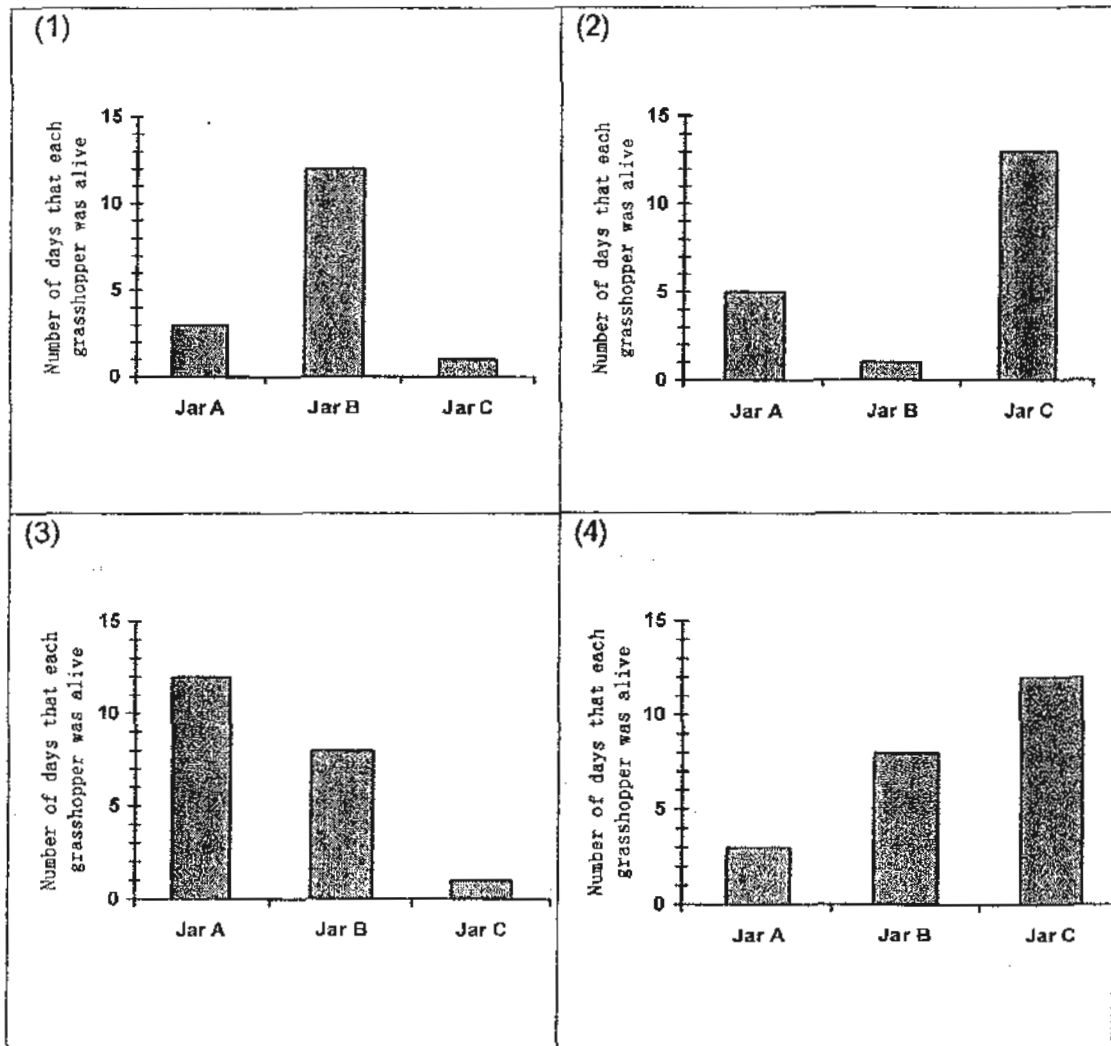
Box Z

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

15 A grasshopper was placed in each of the three jars as set up below.



Which one of the following graphs shows the most likely pattern of the number of days that each grasshopper was alive in the jars in each set-up?



- 16 Jane had some dried flowers in a vase. She wanted to do something to the flowers. Four of her friends gave her some ideas with the respective reasons.

Sam	Pour some water in the vase. The flowers need water to survive.
Claire	Place the flowers at an airy place so that they can take in air.
Danny	Store the flowers in a box as they do not need air, food and water.
En Rui	Put the flowers at a place with plenty of sunlight. The leaves can make food.

Whose idea is the most appropriate?

- (1) Sam
 (2) Claire
 (3) Danny
 (4) En Rui
- 17 Which one of the following statements does **not** show a characteristic of living things?
- (1) A piece of paper was blown away by a strong wind.
 (2) Ali slapped at a mosquito on his arm but it flew away
 (3) Linda's mother gave birth to a baby girl in the hospital.
 (4) The height of a plant increased by two centimetres.

- 18 Study the table below.

Animal	Have wings	Feeds young with milk	Body covered with hair
A	✓	X	X
B	✓	X	✓
C	✓	✓	✓
D	X	✓	X

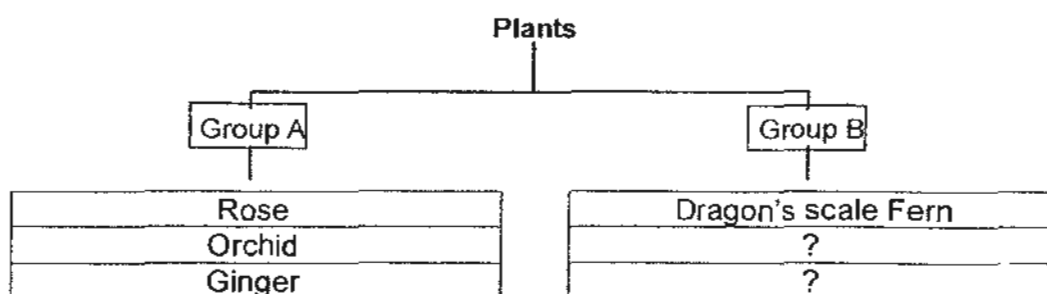
Which animal is likely to be a bat?

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

19 Which one of the following shows a living thing responding to changes in its environment?

- (1) A bird laying eggs into its nest.
- (2) A ball dropping out of a bag.
- (3) A windmill turning when it is blown by the wind.
- (4) A tortoise retreating into its shell when it is touched.

Study the chart below and answer questions 20 and 21.



20 Which one of the following pairs can be placed in Group B?

- (1) Mushroom and moss
- (2) Mushroom and bracket fungus
- (3) Staghorn Fern and moss
- (4) Staghorn Fern and water lily

21 Which one of the following pairs makes suitable headings for each group?

	Group A	Group B
(1)	Land plants	Water plants
(2)	Poisonous plants	Non-poisonous plants
(3)	Flowering plants	Non-flowering plants
(4)	Non-flowering plants	Flowering plants

22 The shoes that school students wear are made mainly of _____.

- (1) glass and silk
- (2) metal and plastic
- (3) wood and rubber
- (4) rubber and canvas

23 Which one of the following materials is obtained from animals?

- (1) Wood
- (2) Plastic
- (3) Cotton
- (4) Leather

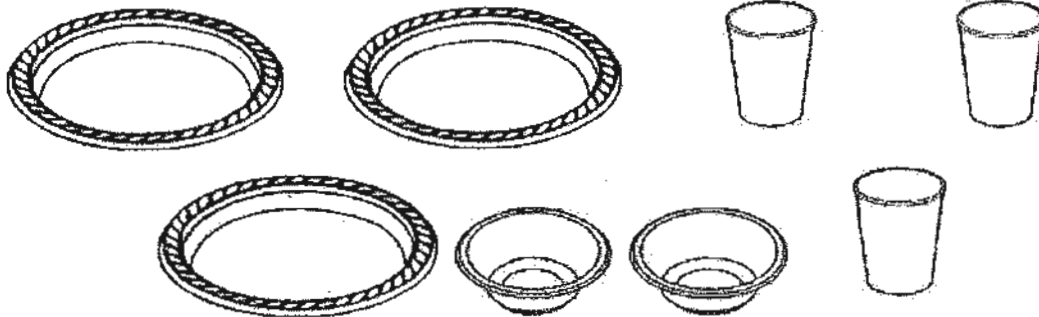
24 The following items are grouped according to the materials they are made from.

Group 1	Group 2	Group 3	Group 4
paper clip	tyre	book	uniform
safety pin	slippers	newspaper	pillow cover

Which group should 'tissue paper' belong to?

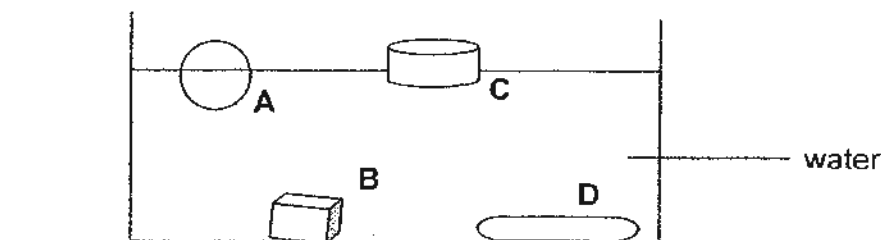
- (1) Group 1.
- (2) Group 2
- (3) Group 3
- (4) Group 4

- 25 Miss Neo bought some cups and plates for a birthday party. They were light, cheap and disposable. What were they made of?



- (1) Steel
 - (2) Glass
 - (3) Rubber
 - (4) Plastic
- 26 Samid was drenched as he walked home in a heavy rain. His sports shoes were wet so he stuffed newspapers into the shoes and left them at the shoe rack overnight. The next morning, his shoes were almost dried. However, the newspapers were slightly damp. What could be the possible reason that the shoes were almost dried?
- (1) The newspapers made space for the shoes to dry.
 - (2) The newspapers absorbed the smell from the shoes
 - (3) The newspapers absorbed the water from the shoes.
 - (4) The newspapers stretched the shoes and made it waterproof.
- 27 Metals are used to make vehicles, construct buildings and bridges. What is the main property of metals chosen for these purposes?
- (1) It is soft and flexible.
 - (2) It is strong and hard.
 - (3) It is shiny in appearance
 - (4) It does not allow light to pass through.

- 28 Johnson placed 4 objects into a tank of water. The picture below shows the results of his experiment.



Which one of the following comparisons is correct?

	Float	Sink
(1)	A and B	C and D
(2)	A and C	B and D
(3)	B and D	A and C
(4)	C and D	A and B

- 29 Benny needs a container to cook outdoor at a school camp. Which of the following properties should he consider when choosing the container?

- A: It is elastic.
- B: It is flexible.
- C: It is waterproof.
- D: It is able to heat up quickly.

- (1) A and B only
 (2) A and D only
 (3) B and C only
 (4) C and D only
- 30 There are three different sized boxes, large, medium and small, that can be used to pack Christmas gifts. The table below shows the maximum weight that each box can hold before it breaks.

Size	Maximum weight (g)
Large	900
Medium	500
Small	300

Sheila has a total of three gifts for her friend, Joe. The gifts can be packed together or separately depending on the weight the box can hold. The gifts weigh 600g, 500g and 300g respectively. Which one of the following combinations of boxes should she use so that all three gifts are packed?

- (1) One large-sized box
- (2) Three small-sized boxes
- (3) One large-sized box and one medium-sized box
- (4) One medium-sized box and two small-sized boxes

**** End of Section A ****



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BOOKLET B

14 Questions
40 marks

MARKS

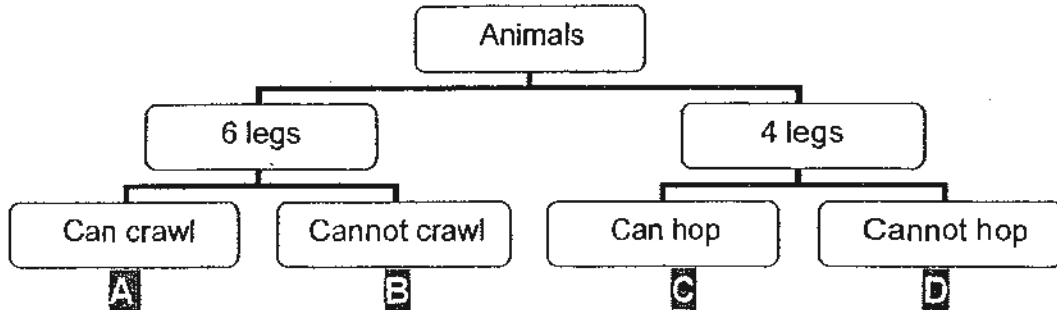
	OBTAINED	POSSIBLE
BOOKLET A		60
BOOKLET B		40
TOTAL		100

Parent's Signature : _____

Section B: Open-ended questions: 14 Questions (40 marks)

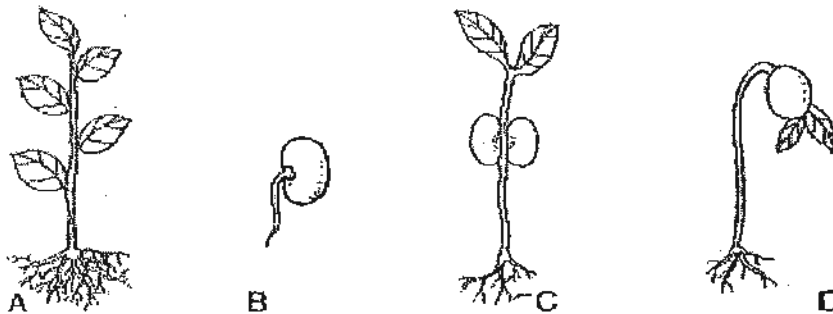
Write your answers to the following questions in the spaces provided.

31 The classification chart below shows how some animals are grouped.

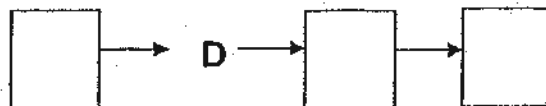


- a) Where can the following animals be placed in the classification chart above, A, B, C, or D? (1m)
- (i) Housefly : _____
- (ii) Tortoise : _____
- b) Can a snake be placed in the classification chart above? Explain your answer (1m).

32 The pictures below show the growth of a seed into an adult plant.











- a) Arrange the stages of growth of the seed into an adult plant in the correct sequence. (1m)



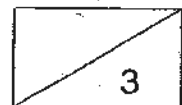
- b) Xiao Ming was given some bean seeds to grow using some cotton wool. Should he use wet cotton wool or dry cotton wool? Explain why. (2m)

33 Living things can reproduce. Name the young of the following animals. (2m)

a)

	Adult	Young	
i)			_____
ii)			_____
iii)			_____
iv)			_____

b) All the animals listed above in part (a) reproduce in the same way. How do they reproduce? (1m)



34 Mrs Lee found this animal at home and she examined it under a magnifying glass. She concluded that it is not an insect.

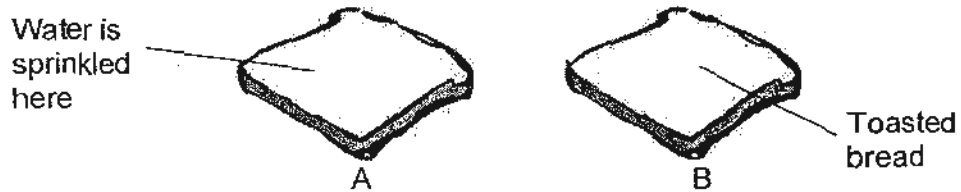


List two reasons why the animal is **not** considered an insect. (2m)

i) _____

ii) _____

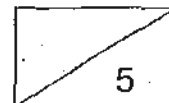
35 John had two pieces of bread, A and B. He sprinkled water on A and toasted B.



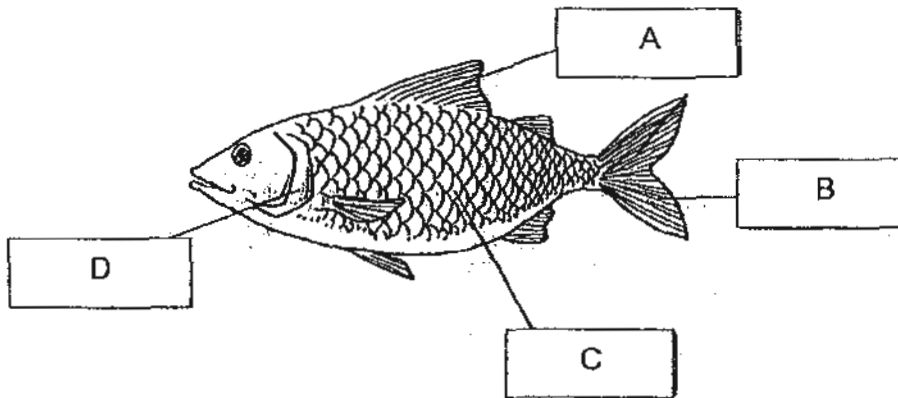
a) After a few days, John discovered black spots on only one piece of bread. Which piece of bread do you think has those black spots, A or B? (1m)

b) Are those black spots plants? State one characteristic to explain your answer. (1m)

c) Which group of living things do those black spots belong to? (1m)



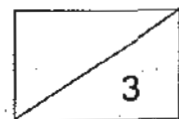
36 Study the picture of the fish below carefully.



a) At which part of the body can the gills be found, A, B, C or D? (1m)

b) How does part C, the outer covering, help the fish? (1m)

c) What happens to the movement of the fish if part A and part B are removed? (1m)



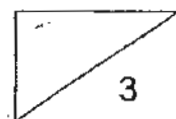
37 The picture below shows a doll.



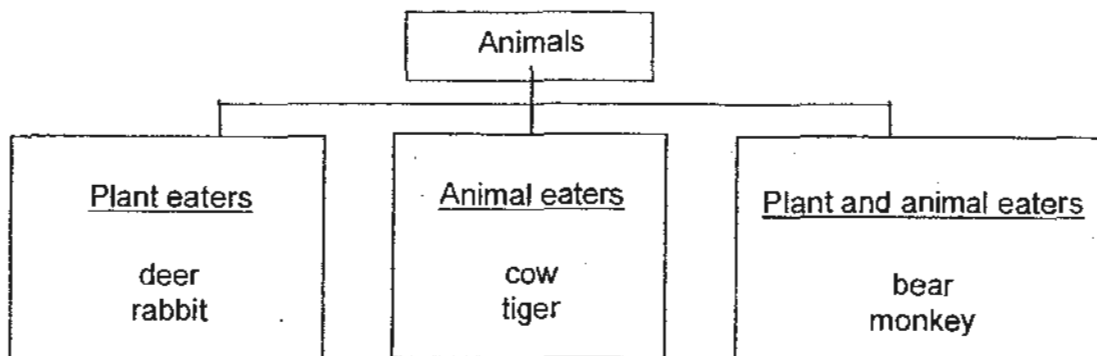
a) What material are the clothes of the doll usually made from? (1m)

b) The doll danced when a seven-year-old girl, Feng Feng, squeezed her hand. Feng Feng shouted, "She is alive!" What characteristic did the doll show that made Feng Feng believe that the doll was alive? (1m)

c) Name one characteristic of non-living things that you would use to explain to Feng Feng that you do not agree with her. (1m)



38 The following animals are classified according to what they eat.



a) Which animal is classified wrongly? (1m)

b) Can mushroom be classified in the chart above? Explain why. (1m)

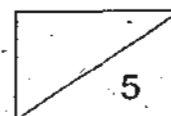
c) During the dry season, it did not rain for many months. A lot of plants died. What would happen to the plant eaters eventually? Why? (1m)

39 Ali wanted to test the hardness of two materials, wood and metal. He carried out two simple experiments. In the first experiment, he used a wooden toothpick to scratch a metal spoon. In the second experiment, he used a metal nail to scratch a wooden spoon.

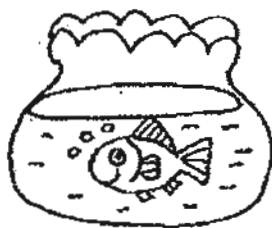
a) Write down his observations in the table. (1m)

	Observations of the spoon surface
First experiment	 <hr/>
Second experiment	 <hr/>

b) What can Ali conclude about the two materials? (1m)




- 40 The picture below shows a fish tank.



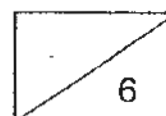
- a) What type of material can be used to make a fish tank so that the animals inside can be seen easily? (1m)
-
- b) Name an important property of the material you have listed in part (a) that makes it suitable for making a fish tank. (1m)
-
- c) Name one other suitable material that can be used for making a fish tank so that the animals inside can be seen easily. (1m)
-

- 41 Mrs Loh carried out an experiment to test the strength of three materials which were of the same size. She recorded the results in the table below.

Materials	Weight the material can hold before it breaks (g)
X	710
Y	390
Z	950

-  Based on the results, what can you conclude about material Z? (1m)
-

- b) Mrs Loh has a book which weighs 550g. Based on the table above, which are the suitable materials for making a bag to hold the book? (2m)
-



42 The table below shows the characteristics of three materials.

Material	Flexible	Strong
A	✓	X
B	X	✓
C	X	X

a) List the characteristics of material C. (1m)

b) Which material, A, B or C is suitable for making a measuring tape? (1m)

c) Which material, A, B or C is suitable for making a kettle? (1m)

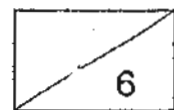
43 Eugenia wants to buy a new bowl for her 4-year-old brother to use as he has just started to learn to eat on his own.

a) What kind of bowl would you advise her to buy, a plastic bowl or a ceramic bowl? (1m)

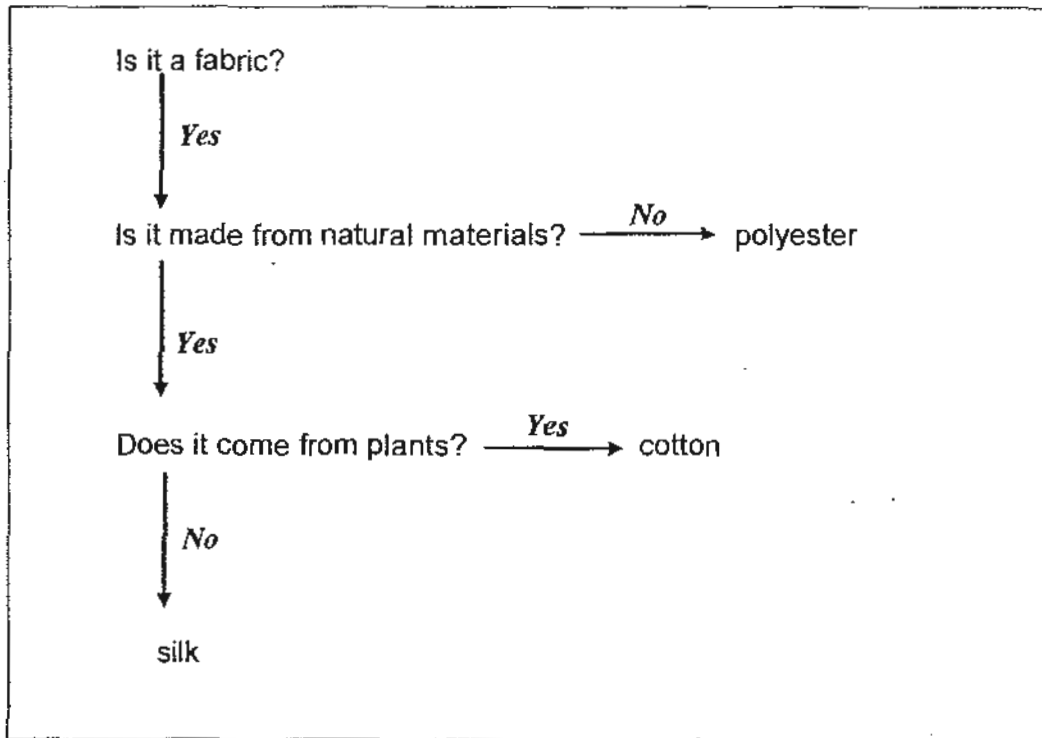
Give two reasons for your choice. (2m)

i)

ii)

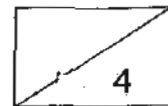


44 Study the flow chart carefully.



- a) State one characteristic of cotton based on the chart above. (1m)
-
- b) Based on the chart above, which is a man-made material? (1m)
-
- c) State one characteristic of silk based on the chart above. (1m)
-
- d) Give another example of a natural material that does not come from plants. (1m)
-

**** End of Section B ****
**** Please check your answers carefully. ****



ANSWER SHEET

EXAM PAPER 2010

SCHOOL : RED SWASTIKA PRIMARY
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA1

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

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
3	4	3	3	4	4	3	4	3	2	2	4	3

- 31ai) A 31aii) D 31b) No, it does not have any legs.
32a) B → D → C → A 32b) Wet cotton wool. Plants need water to grow.
33ai) tadpole 33aii) chick 33aiii) nymph 33aiv) caterpillar
33b) They reproduce by laying eggs.
34i) An insect has three body parts but this animal has two body part.
34ii) An insect has 6 legs but this animal has 8 legs.
35a) A 35b) No, they are not plants. They cannot make food.
35c) They belong in the fungi group.
36a) D 36b) It protects the fish body. 36c) It will not be able to move.
37a) Cotton 37b) The doll respond to changes. 37c) The doll cannot grow.
38a) Cow 38b) No, it is a fungi. 38c) They will die. They do not have food.
39a) First experiment: Not able to scratch the metal spoon.
Second experiment: It is able to scratch the wooden spoon.
39b) Metal is harder than wood.
40a) Plastic 40b) It is waterproof. 40c) Glass
41a) Material Z is the strongest.
41b) Material X and Z.
42a) It is not flexible and not strong.
42b) Material B
43a) A plastic bowl
43bi) A plastic bowl does not break easily.
43bii) A plastic bowl is lighter.
44a) It is a natural material and it comes from plants.
44b) polyester
44c) It is a natural material that do not come from plants
44d) Wool