

NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE

SEMESTRAL ASSESSMENT 2

2008

BOOKLET A

Date :

Duration : 1 h 45 min

Name : _____ ()

Class: Primary _____ ()

Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature:

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FOLLOW ALL INSTRUCTIONS CAREFULLY.

Booklet A consists of 14 printed pages including this cover page.

Section A (30 x 2 marks = 60 marks)

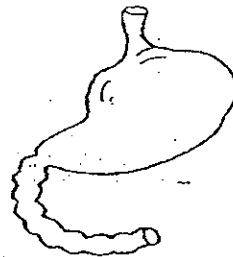
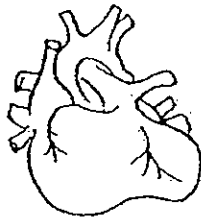
For each question from 1 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet provide

1. Which of the following statements is/are true about the function of the skeleton?

- A. It supports the body.
- B. It protects some of the important organs.
- C. It works with the muscular system to enable us to move.

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

2. Which of the statements are true for both parts of our body shown below?



- A. Both are organs of the human system.
- B. Both can contract and relax.
- C. Both are part of the digestive system.

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

3. Which one of the following systems below carries digested food, oxygen and waste materials around our body ?

- (1) The Muscular System
- (2) The Circulatory System
- (3) The Digestive System
- (4) The Skeletal System

4. Wei Ming carried out the following activities stated below.

- A. Eating
- B. Lifting
- C. Writing
- D. Sleeping

Which of these activities require(s) the use of the muscular and skeletal systems?

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

5. Which one of the following animals does not have a backbone?

- | | |
|-------------|---------------|
| (1) Snake | (2) Elephant |
| (3) Sparrow | (4) Earthworm |

6. Which one of the following statements about micro-organisms is false?

- (1) They are living things.
- (2) Some fungi are micro-organisms.
- (3) All micro-organisms are bacteria.
- (4) They cannot be seen with the naked eye.

7. Ali saw a living thing growing on a rotting log. It does not have green parts and produces spores. Which of the following living thing could it be?

- (1) Moss
- (2) Fern
- (3) Fungus
- (4) Bacterium

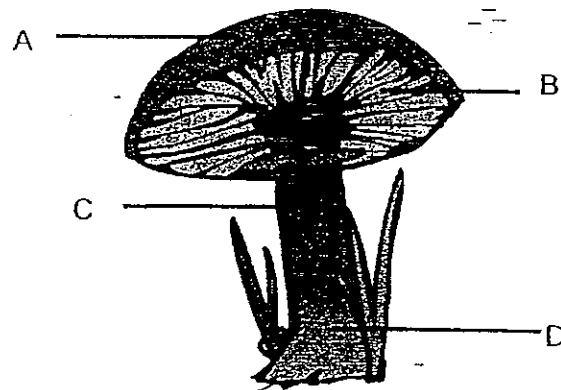
8. Which of the following shows only examples of flowering plants?

- (1) Moss and Hibiscus
- (2) Ixora and Mushroom
- (3) Coconut and Water Lily
- (4) Bird Nest Fern and Duckweed

9. Jason kept his pet fish in a small plastic bag of water and tied the bag tightly with a rubber band. After a few hours, his pet fish died. What could have caused the death of the fish?

- (1) It did not have enough air.
- (2) It did not have enough water.
- (3) It did not have enough light.
- (4) it did not have enough space.

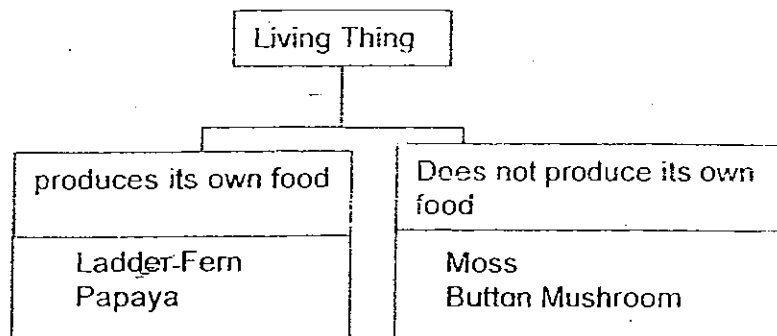
10. The picture below shows a mushroom with its parts labelled.



Where are the spore found?

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

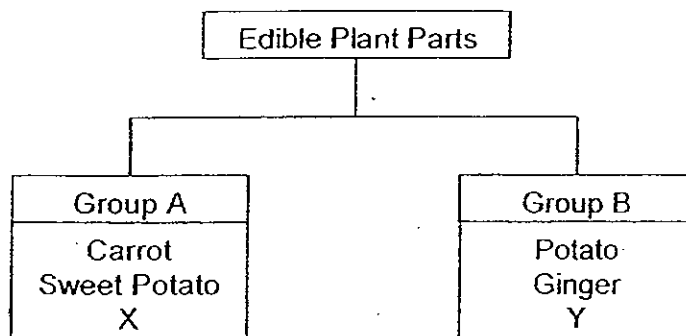
11. Study the classification chart below.



Which example has been classified wrongly ?

- (1) Moss
- (2) Papaya
- (3) Ladder Fern
- (4) Buttan Mushroom

12. Study the classification table below.



Which one of following could X and Y be?

	X	Y
(1)	Cucumber	Basil
(2)	Garlic	Radish
(3)	Yam	Sugar cane
(4)	Turnip	Water chestnut

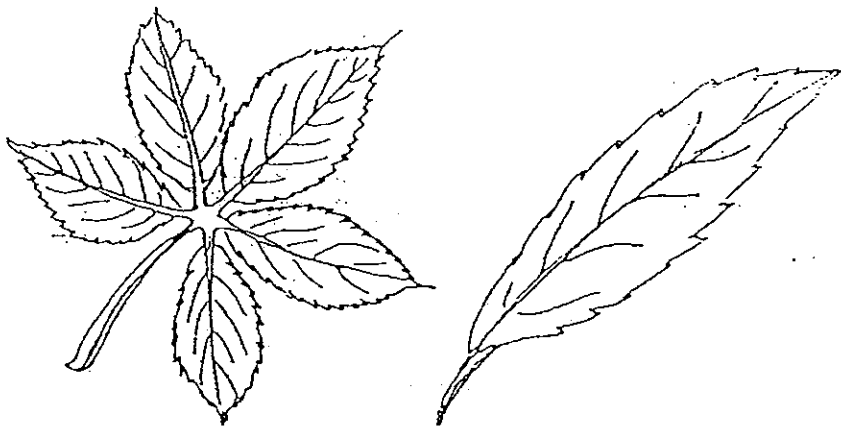
13. Which of the following statements state the similarities between Bird's Nest Fern and Water Hyacinth ?

- A. They both have flowers.
- B. They have roots and leaves.
- C. They are able to make their own food.

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

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

14: Study the diagrams of the two leaves shown below.



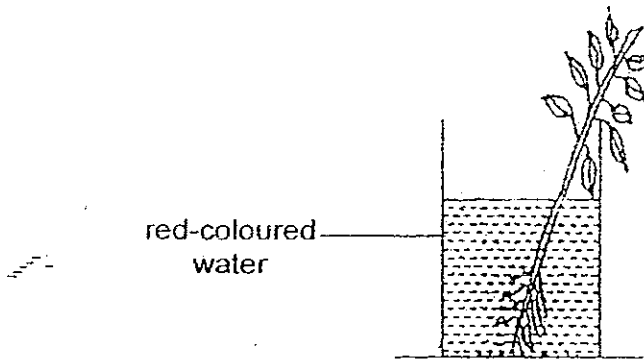
Which of the following statements are correct?

- A. They have leaf veins.
- B. They have leaf stalks.
- C. They have jagged edges.
- D. They have the same shape.

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


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

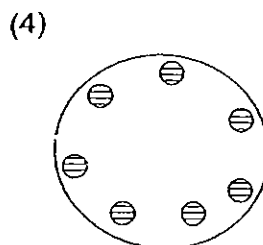
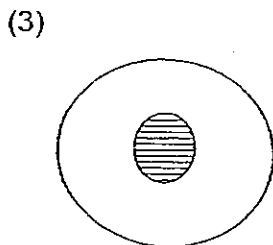
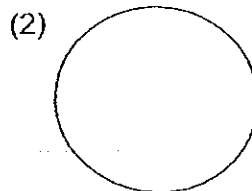
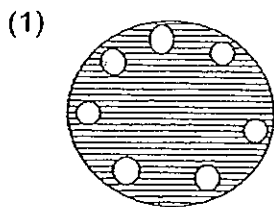
15. Shirley put a balsam plant in a beaker of red-coloured water as shown below.



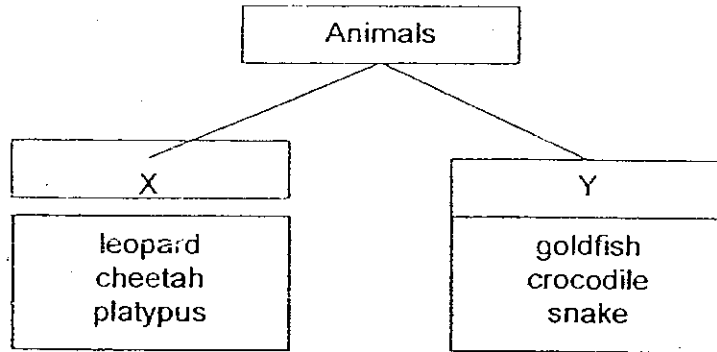
The next day, she cut a cross section of the stem of the balsam plant and saw red-coloured structures.

Which one of the diagrams below correctly shows the cross-section of the balsam stem?

<p>Key</p>  <p>Part of plant that is stained red</p>
--



16. Some animals are grouped according to their characteristics.



What are the characteristics represented by X and Y?

	X	Y
(1)	Has hairs	Has scales
(2)	Carnivores	Herbivores
(3)	Live on Land	Live in Water
(4)	Give birth to young	Lay eggs

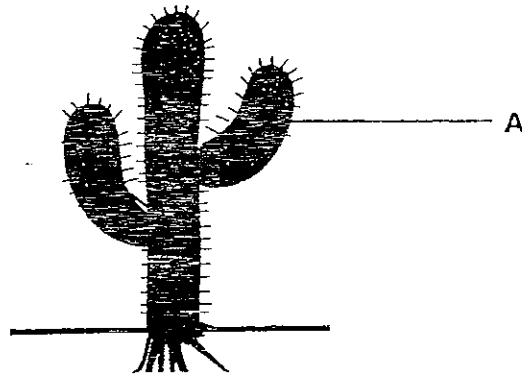
17. What does a bat and a parrot have in common ?

- (1) Both lay eggs.
- (2) Both have wings.
- (3) Both have feathers.
- (4) Both feed on insects.

18. Which of the following shows only examples of ^{plants that} flowering plant?

- (1) ~~Moss~~ and Hibiscus
- (2) Ixora and Mould
- (3) Coconut and Water Lily
- (4) Bird Nest Fern and Duckweed

19. Look at the picture of a cactus below.



What are the functions of the part labelled A?

- A To store water.
- B To take in water.
- C To make food.
- D To transport food.

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

20. What are the functions of the fins of a fish?

- A. Keep the fish warm.
- B. Protect the fish body.
- C. Help the fish to swim.
- D. Help the fish to balance.

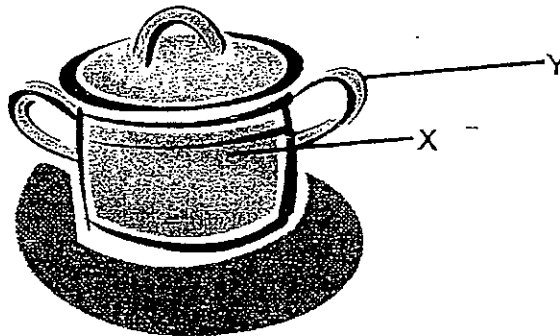
- (1) A and B only
- (2) A and C only
- (3) C and D only
- (4) B and D only

21. Which of the following properties are the reasons for using glass to make window?

- A It is flexible.
- B It is waterproof.
- C It is transparent.
- D It breaks when dropped

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

22. The diagram below shows a cooking pot with parts labeled X and Y.



What are suitable material for making the parts marked X and Y?

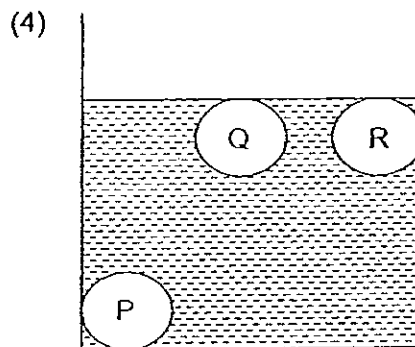
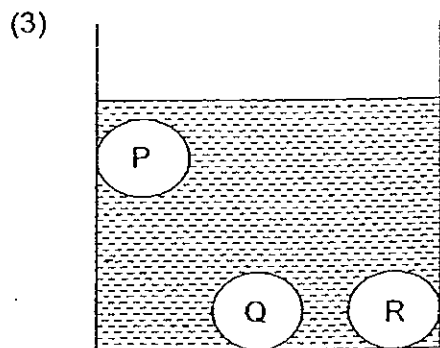
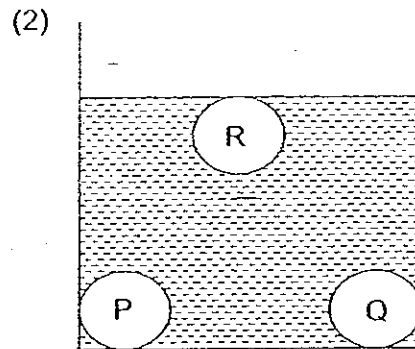
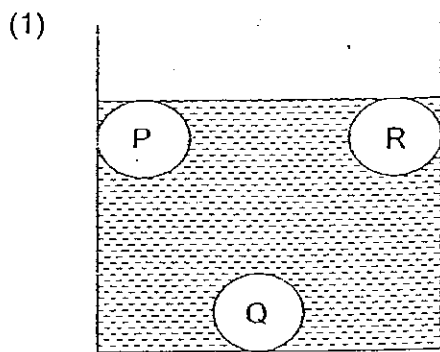
	X	Y
(1)	metal	plastic
(2)	rubber	metal
(3)	wood	rubber
(4)	plastic	ceramic

23. Fishmonger usually wears boots when they are working the wet market. Why is rubber usually used to make these boots?

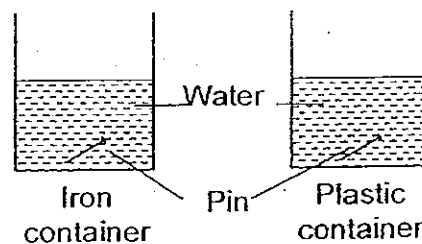
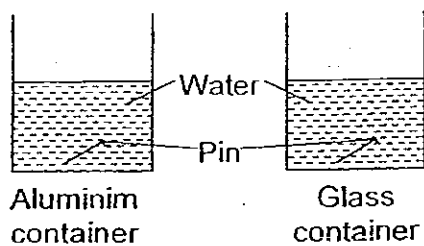
- A It is hard.
- B it is flexible.
- C It is colourful.
- D It is waterproof.

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

24. Ming Li placed an iron ball (P), a glass (Q) and a wooden ball (R) into a container of water. None of the balls are hollow. Which one of the following diagrams shows the position of the balls in the water correctly?



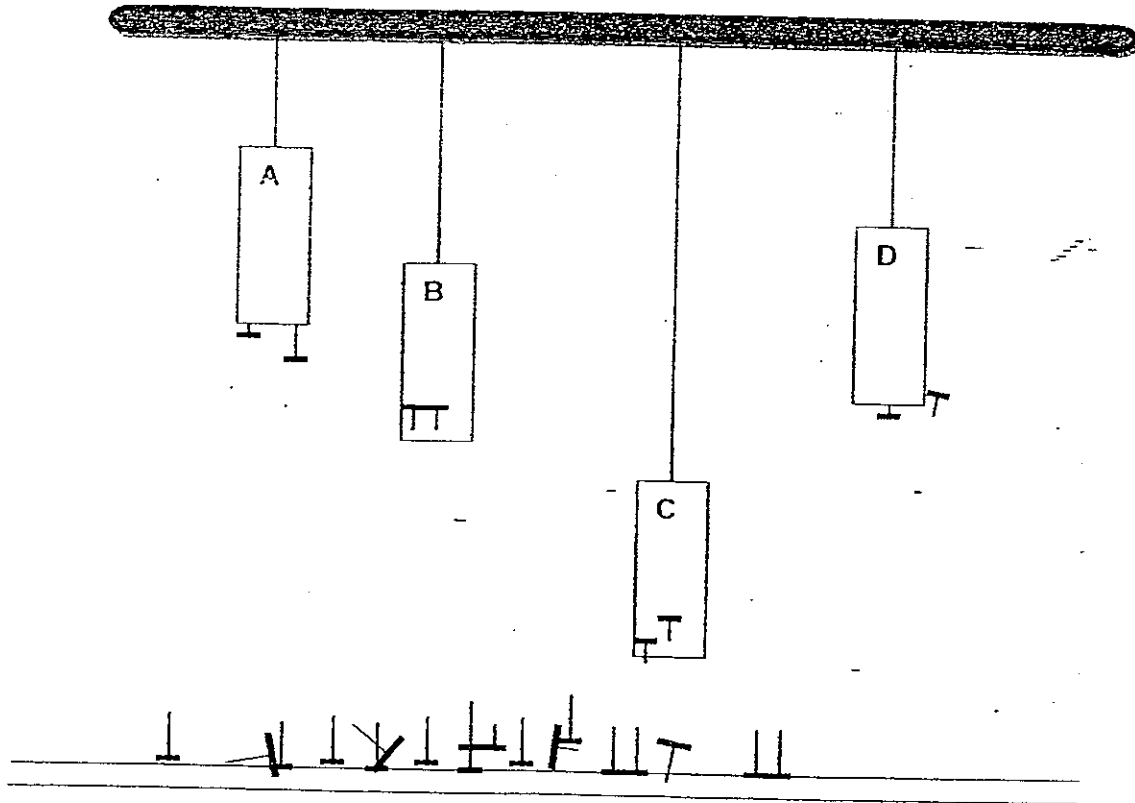
25. Rahim wanted to use a magnet to remove the iron pins from the containers shown below. He did not want his hand or the magnet to be wet.



Rahim found that he could not remove the iron nail from one of the containers. Which container was it?

- (1) Aluminium container
 (2) Glass container
 (3) Iron container
 (4) Plastic container

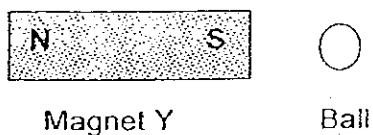
26. The diagram below shows four similar magnets. Some thumbtacks were placed on the table below them.



Which magnet is the weakest?

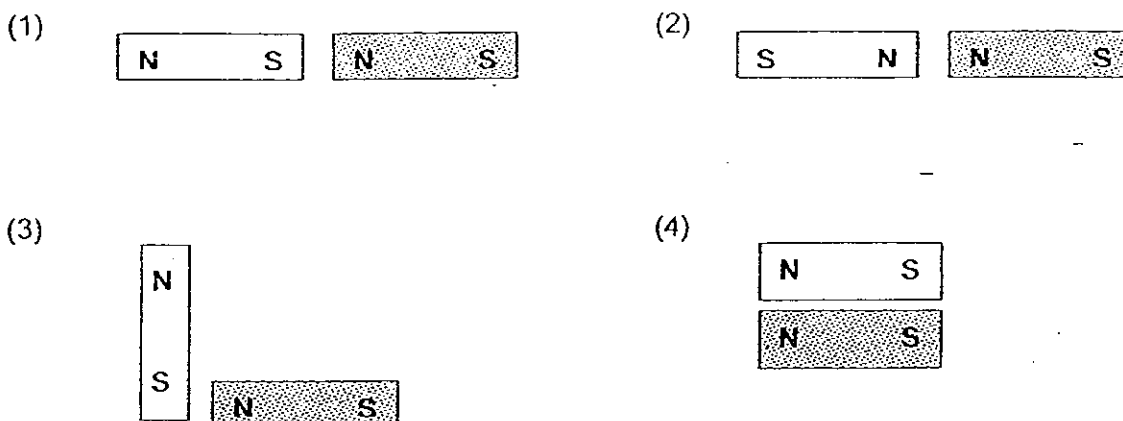
- | | |
|-------|-------|
| (1) A | (2) B |
| (3) C | (4) D |
27. Which one of the following electrical appliances does **not** make use of electro-magnet to work?
- | | |
|---------------------|---------------------|
| (1) Blender | (2) Electric kettle |
| (3) Washing machine | (4) Vacuum Cleaner |

28. Mike placed magnet Y next to a rubber ball.

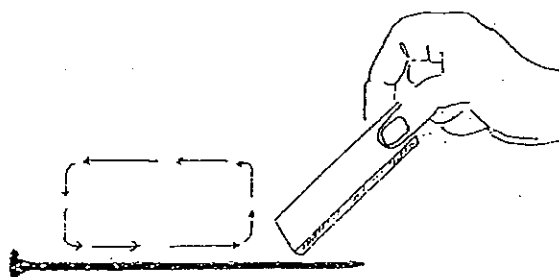


His friend then placed another bar magnet next to magnet Y. They noticed that magnet Y moved forward, pushing the rubber ball away.

Which one of the following arrangements of magnets would cause the rubber ball to roll away ?



29. The diagram below shows a nail being made into a magnet.



Which method was used to magnetise the nail ?

- | | |
|---------------------|-----------------------|
| (1) Stroking method | (2) Rubbing method |
| (3) Touching method | (4) Scratching method |

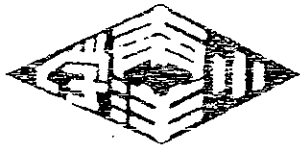
30. Diana has 4 pieces of paper B, C, D and E. They are of similar size, thickness and weight. She placed each paper into a dish filled with water for 5 minutes before removing and weighing the paper. No water dripped from the paper when she was so.

The table below shows her readings.

Paper	Weight of paper when it is dry	Weight of paper when it is wet
B	1 g	2 g
C	1 g	5 g
D	1 g	3 g
E	1 g	4 g

Based on her result, which paper is best used for making paper towel to dry wet table top?

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



南洋小學
NANYANG PRIMARY SCHOOL

PRIMARY THREE SCIENCE
SEMESTRAL ASSESSMENT 2

2008

BOOKLET B

Date : 23 October 2008

Duration : 1 h 45 min

Name : _____ ()

Class: Primary _____ ()

Marks Scored:

Booklet A:		60
Booklet B :		40
Total :		100

Parent's signature:

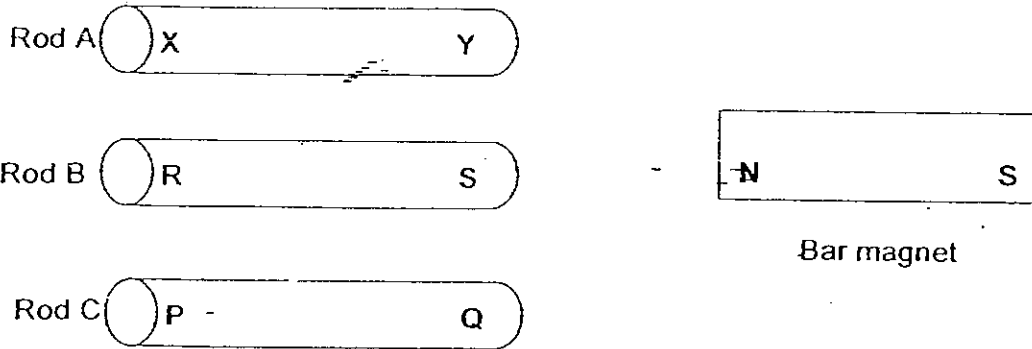
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Booklet B consists of 14 printed pages including this cover page.

Section B (40 marks)

Write your answers to questions 31 to 45 in the spaces provided.
Marks will be deducted for misspelt key words.

31. Simon had three rods A, B and C and their ends were labelled as shown in the diagram below.



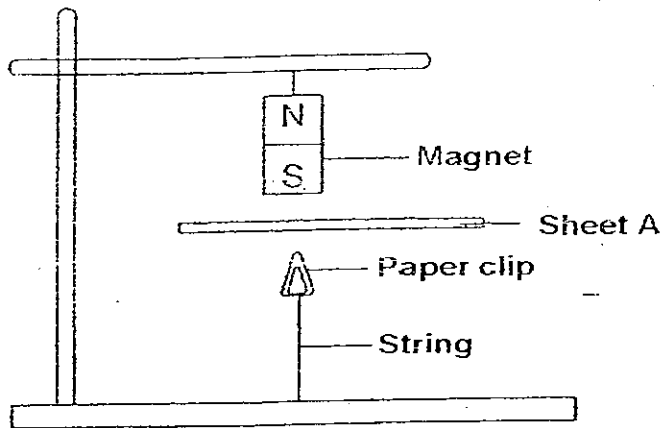
He carried out an activity with each of the three rods using the bar magnet and recorded his results in the table below.

Rod	Result
A	X and Y were attracted to the north pole of the magnet
B	S was repelled by the north pole of the magnet but R was attracted.
C	Both P and Q did not attract or repel both poles of the magnet.

(a) Which one of the three rods A, B or C is a magnet? [1]

(b) Explain your choice in (a)? [1]

32. Mariam set up an experiment as shown below.



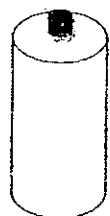
When she placed sheet A between the magnet and paper clip, she noticed that the paper clip was still able to float in the air.

(a) Name the force which held the paper clip in the air. [1]

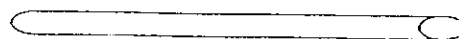
(b) Name a material that sheet A could be made of. [1]

(c) For the paper clip to float in the air, what property must the material that you have named in (b) have? [1]

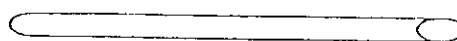
33. The diagram below shows some objects found in the Science Room.



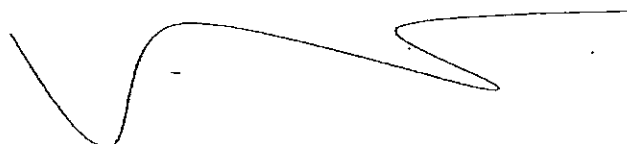
Battery



Steel rod



Plastic rod



Electric wire

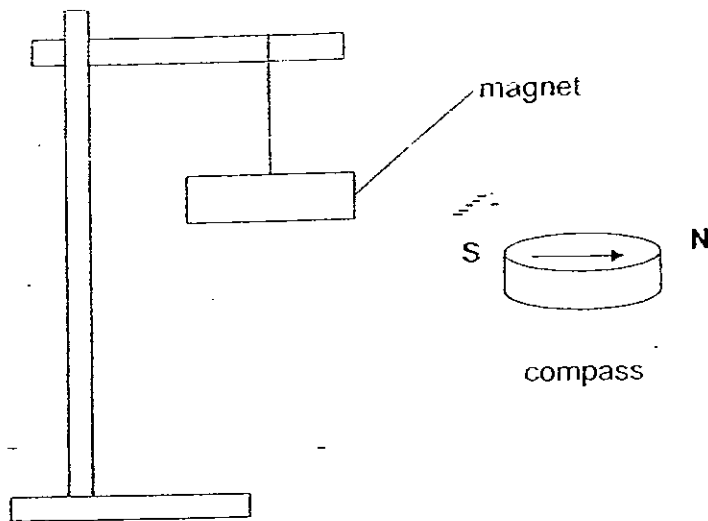


Thumb tacks

- (a) From the above, name only the objects that you would need to make an electro-magnet. [1]

- (b) Describe one way to increase the strength of an electro-magnet that you have made? [1]

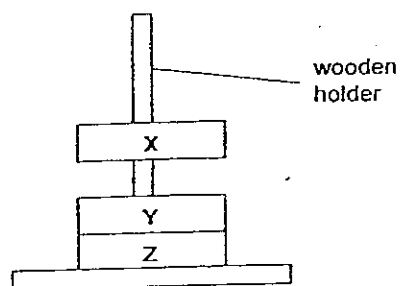
34. The diagram below shows a bar magnet which was freely suspended. The magnet came to a rest after some time.



- (a) What property of magnet is shown in the experiment?

[1]

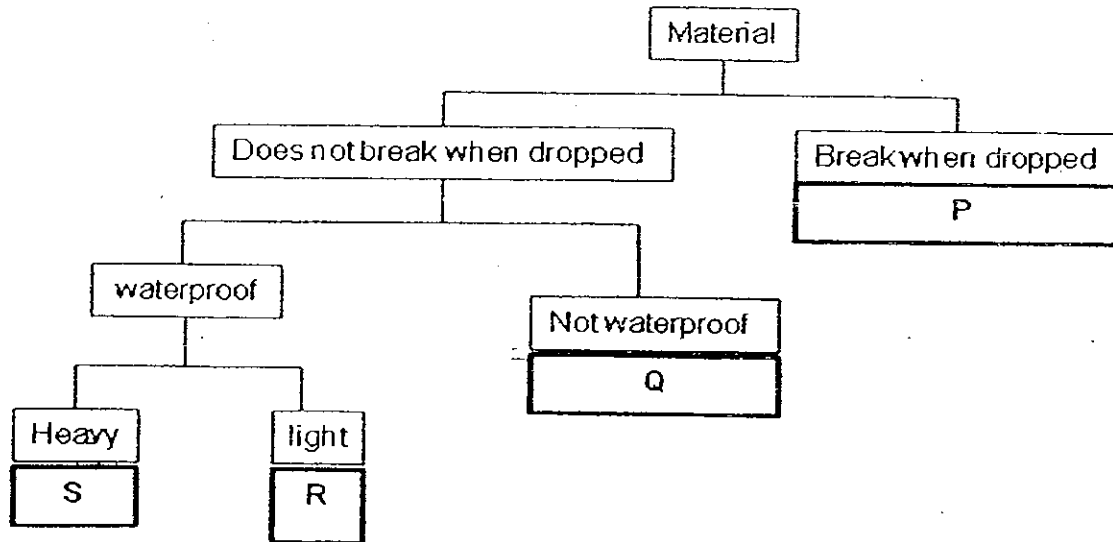
Mrs Chong puts three ring magnets X, Y and Z, through a wooden holder as shown below. She noticed that magnet X floated above magnet Y.



- (b) Explain why magnet X could float above magnet Y.

[1]

35. The classification chart below is used to classify four material P, Q, R and S.



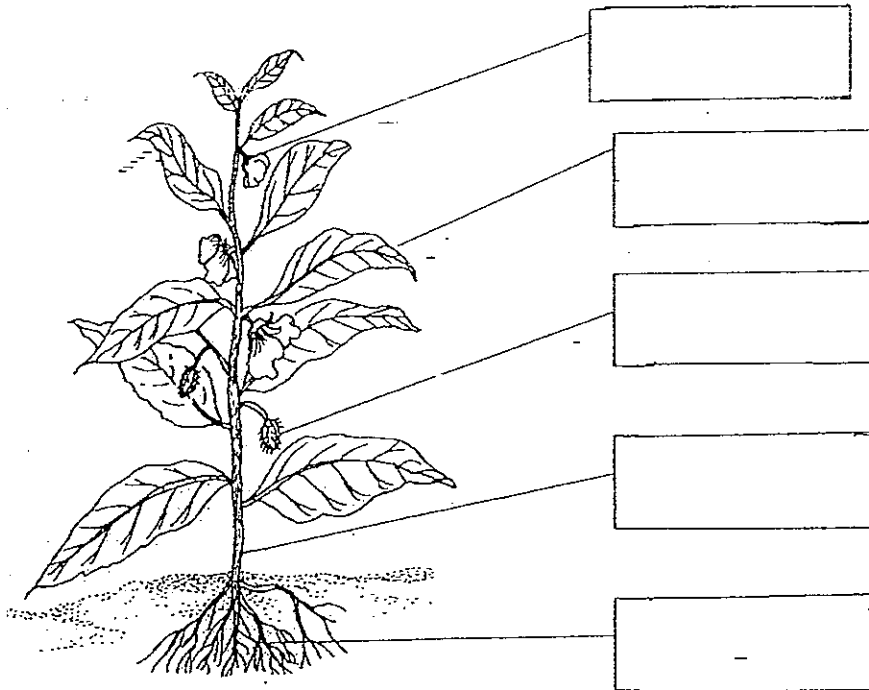
(a) State one similarity between material S and material Q. [1]

(b) Which material P, Q, R or S could mostly likely be used to make a swimming costume? [1]

(c) Which material P, Q, R or S could be used to make tissue paper? [1]

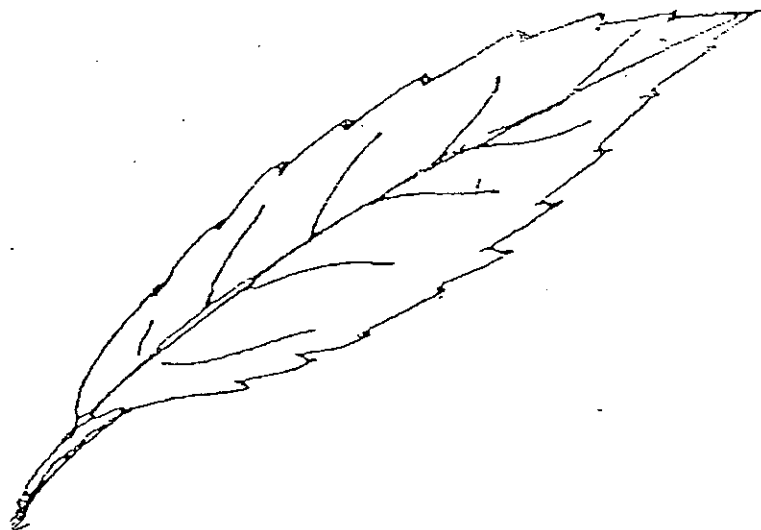
36. Study the diagrams below.

- a) Name the parts of the plant that take up and transport water from the soil to the leaves by writing the names in the correct boxes in the diagram below. [2]

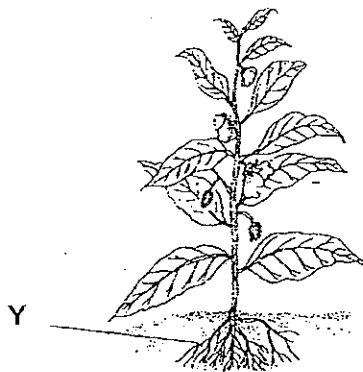


- b) Label the parts of the leaf below with the words provided in the box. [2]

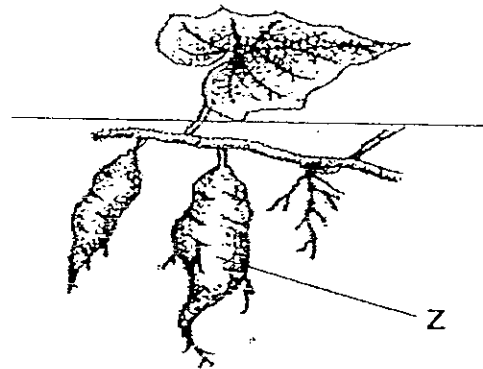
leaf blade vein leaf stalk



37. Study the diagrams given below.



Balsam plant

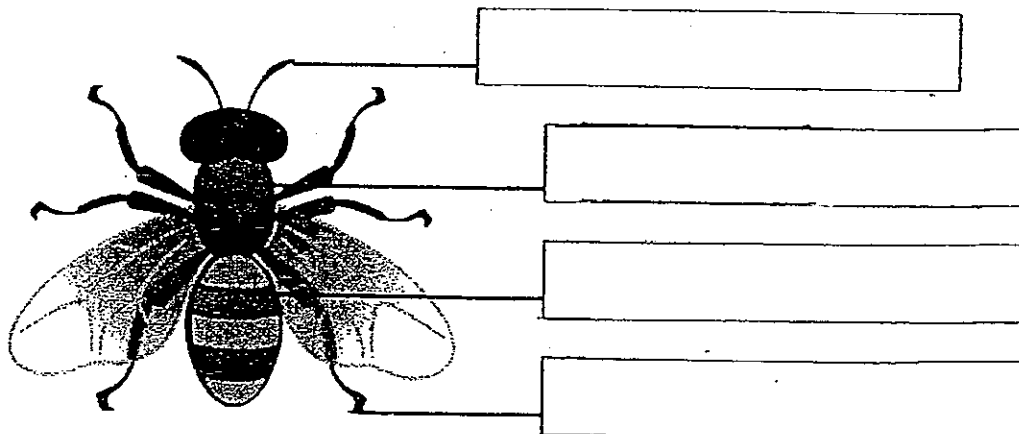


Sweet Potato

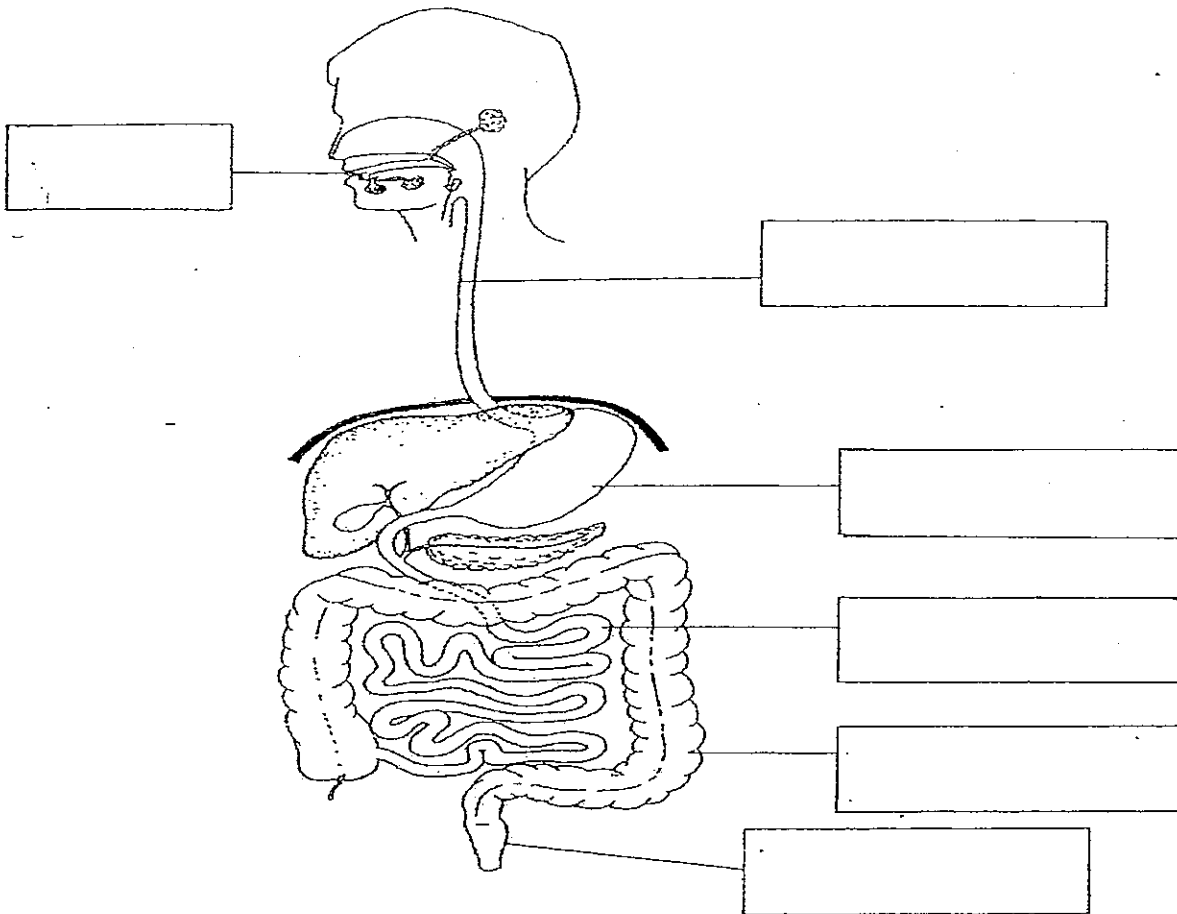
(a) State one similar function of Y and Z. [1]

(b) Name a substance that is stored in Z but not in Y. [1]

38. Label the parts of the insect shown below. Write your answer in the boxes provided. [2]



39. The diagram below shows the digestive system.



- (a) On the above diagram, name all the organs that produce digestive juices by writing their names in the correct boxes [3]
- (b) In which organ is digestion of food completed?
 _____ [1]
- (c) What substance is absorbed from the waste matter before it is passed out of the body?
 _____ [1]

40. Fill in the blanks with the correct words. [2]

When we breathe, the air from the surrounding first pass through our _____ before it enters our _____ through the _____. The main function of the _____ system is the exchange of gases with the surroundings.

41. The table below shows four groups of living things A, B,C and D and the characteristics they have.

Animal Kingdom			
A	B	C	D
<ul style="list-style-type: none"> • Has scales • Has gills • Most lay eggs 	<ul style="list-style-type: none"> • Has feathers • Has a beak • Lay eggs 	<ul style="list-style-type: none"> • Has 3 body parts • Has a pair of feelers • Lay eggs 	<ul style="list-style-type: none"> • Has hairs • Produce milk • Most give birth to young

Based on the above information, write the name of each group of living things in the table below. [2]

Group	Name of group of living things.
A	
B	
C	
D	

42. Study the organiser below carefully. Write one similarity and one difference between the Sunflower and the Bird Nest Fern in the boxes provided. [2]

Sunflower

Bird Nest Fern



Similarities

- Both have roots and leaves.

●	
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Differences



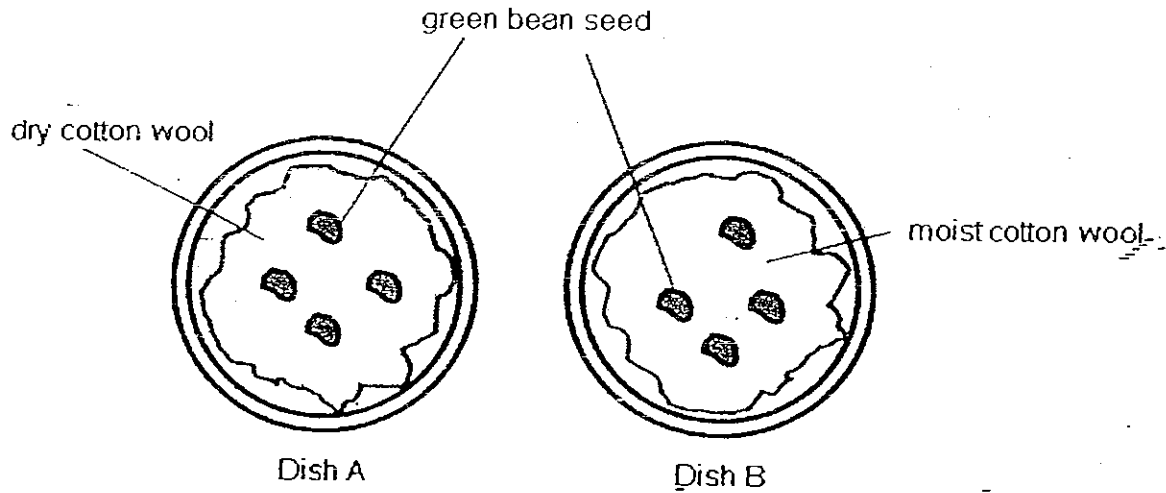
- It produces fruits

●	
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- It does not produce fruits

●	
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43. Siti set up an experiment as shown below.



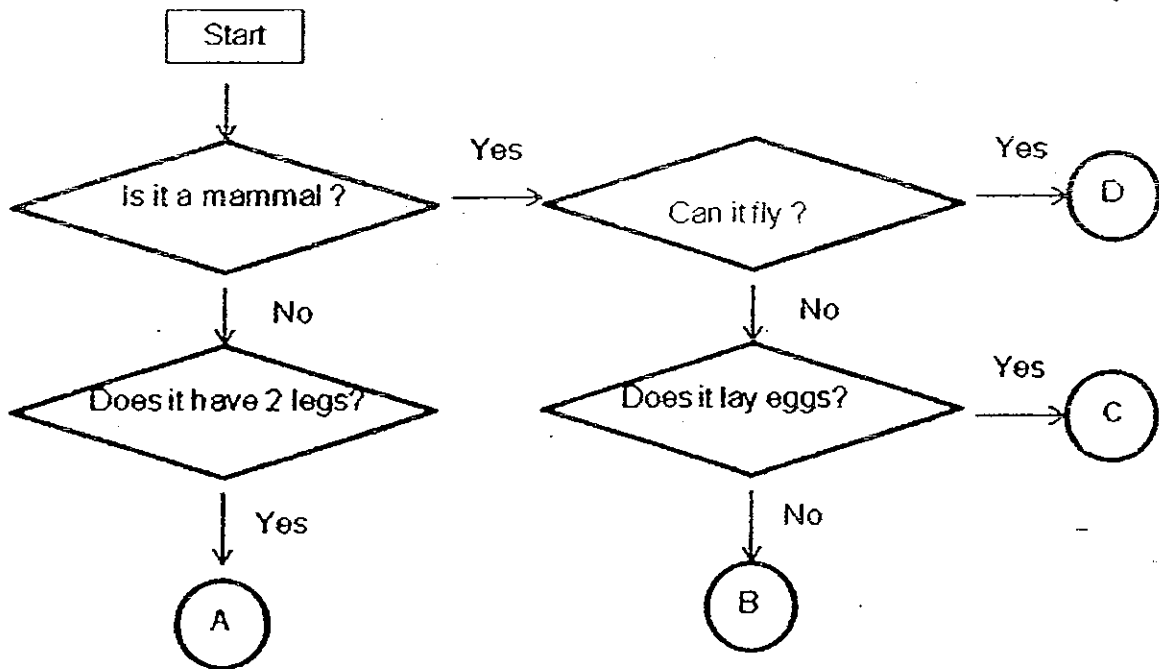
She added water to Dish B to keep it moist everyday and left both dishes in a room without air-conditioner.

(a) Based on her set-up, what about seed germination was Siti trying to study?

(b) List two other conditions required for seed to germinate. [2]

(c) When the seeds in one of the dish had developed into seedlings, Siti transferred them into a pot with soil. Explain why the seedlings could grow better in soil. [1]

44. Four animals A, B, C and D are classified using the flow chart below,

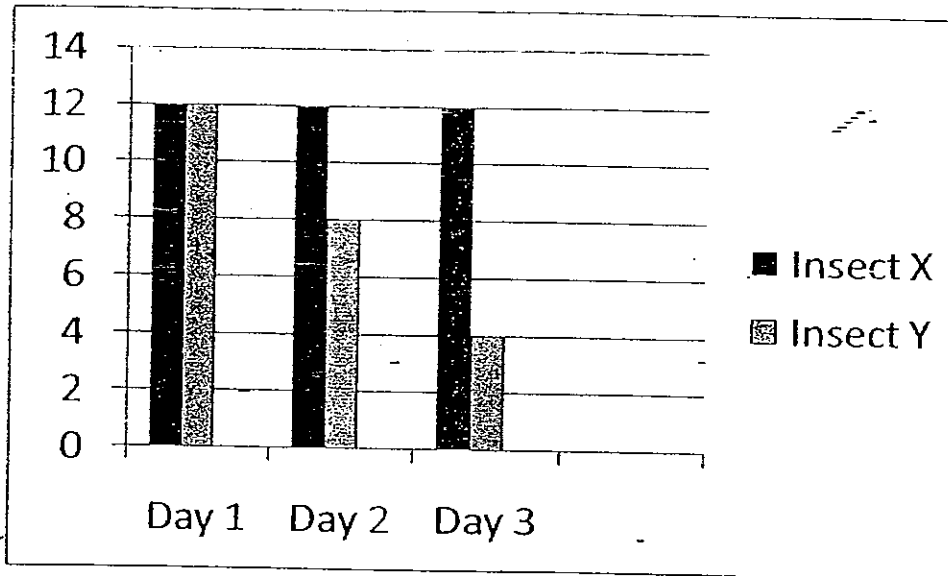


(a) Based on the above flow chart, identify the four animals by filling in the table with the names of animals provided in the box below. [2]

Bat	Penguin
Cat	Spiny Anteater

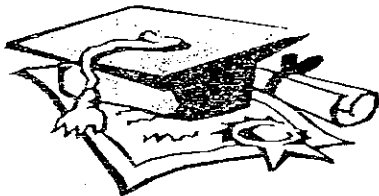
Animal A	Animal B	Animal C	Animal D

45. Tim wanted to find out if lizard feeds on insect X or insect Y. He kept a lizard in a glass tank with insect X and Y. The tank was covered with a fine netting to prevent the lizard or insects from escaping. Insect X and insect Y did not feed on each other. Tim counted the number of each type of insects left in the tank over three days. The bar chart below shows the number of insect X and insect Y over the three days.



- (a) Which insect X or Y does the lizard feed on? Explain your answer. [1]
-
- (b) Besides food what else did the lizard need to stay alive? [1]
-
- (c) Explain why the number of lizard did not increase after the three days.? [1]
-

End of Paper



ANSWER SHEET

EXAM PAPER 2008

SCHOOL : NANYANG PRIMARY SCHOOL
SUBJECT : PRIMARY 3 SCIENCE

TERM : SA 2

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

Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30
1	4	3	2	1	2	2	3	3	2	2	1	2

31)a)Rob B.

b)S repelled by the North pole like a magnet.

32)a)Magnetism.

b)Paper.

c)Magnetic force can pass through the material.

33)a)Battery, Electric wire and steel rod.

b)Increase the number of batteries used.

34)a)A freely suspended magnet points in the north-south direction.

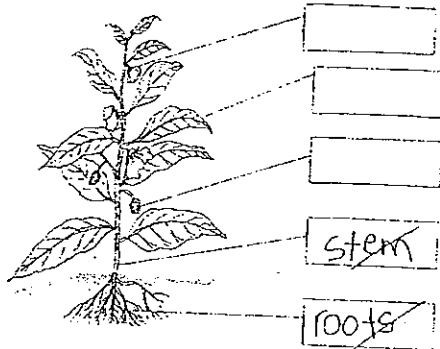
b)The like poles of magnet X and magnet Y are facing each other and like poles repel.

35)a)They do not break easily when dropped.

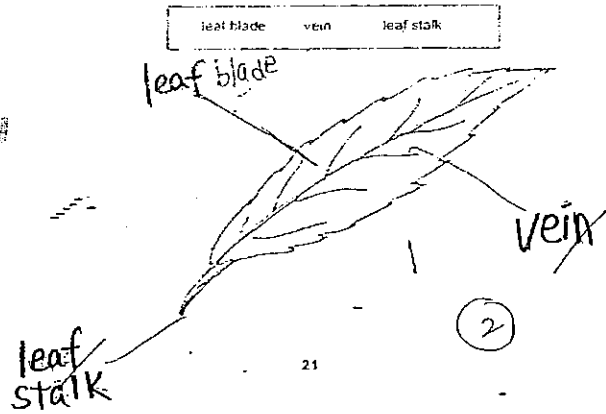
b)R.

c)Q.

36)a)

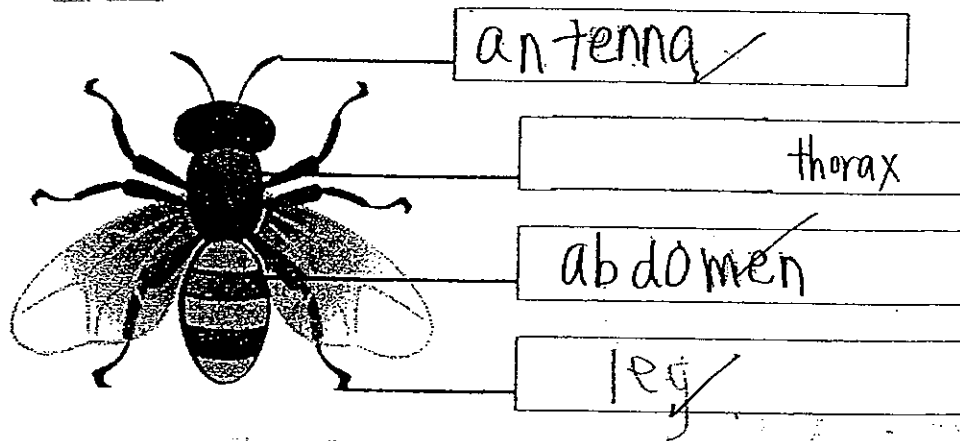


b)

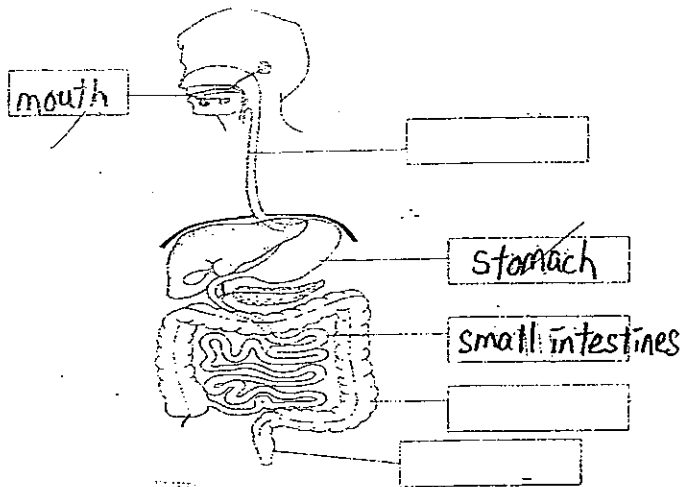


37)a) They help absorb water and mineral salts from the soil.
b) Food.

38)



39)a)



b) Small intestine. c) water.

40) nose, lungs, windpipe, respiratory

41) A: fish B: bird C: insects D: mammals

42) Both can make their own food.

It reproduces by seeds.

It reproduces by spores.

43)a) She is trying to find out if water is needed for germinator.

b) Warmth and oxygen.

c) Soil contains mineral salts.

44) A: Penguin B: Cat C: Spiny Anteater D: Bat

45)a) It feeds on insect Y. The number of insect Y decrease but insect Y remain the same.

b) Air and water.

c) It could not reproduce.