

ANGLO-CHINESE SCHOOL  
(JUNIOR)

SEMESTRAL ASSESSMENT 1 (2006)  
PRIMARY 3

SCIENCE  
BOOKLET A

Thursday 11<sup>th</sup> May 2006

1 hour 30 minutes

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

Class : P 3 \_\_\_\_\_

INSTRUCTIONS TO PUPILS

DO NOT TURN OVER THE PAGES UNTIL YOU ARE TOLD TO DO SO

Follow all instructions carefully.  
There are 30 questions in this booklet.  
Answer ALL questions.

INFORMATION FOR PUPILS

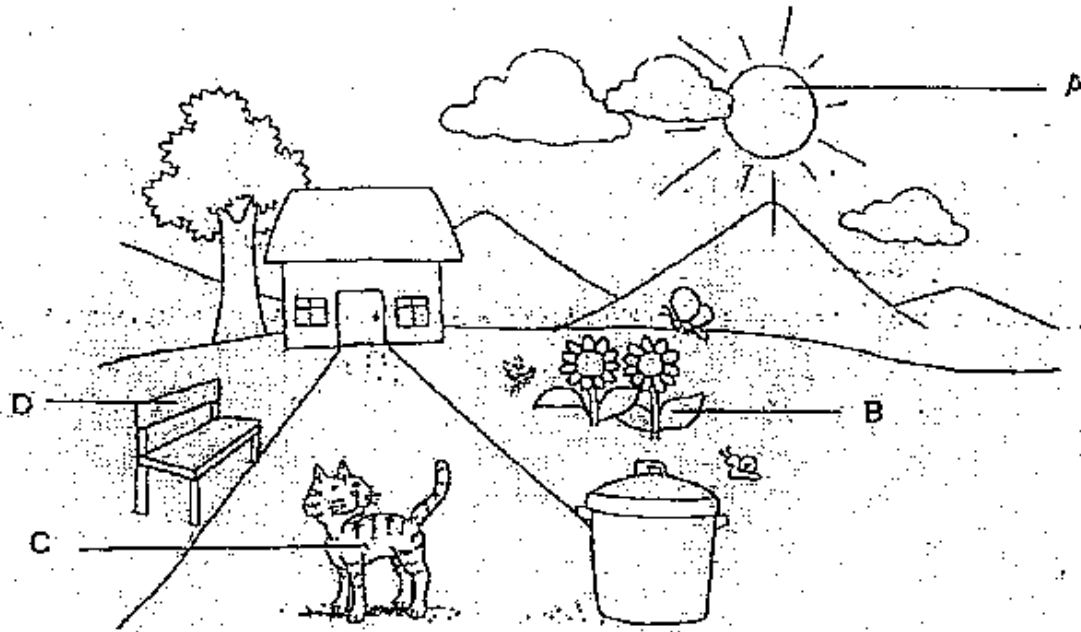
The total marks for this booklet is 60.  
The total time for Booklets A and B is 1 hour 30 minutes.

This question paper consists of 18 printed pages. (Inclusive of cover page)

**Section A (60 marks)**

For each question from 1 to 30, four options are given. One of them is the correct answer. Choose the correct option (1, 2, 3 or 4) and shade the correct oval on the Optical Answer Sheet (OAS).

1



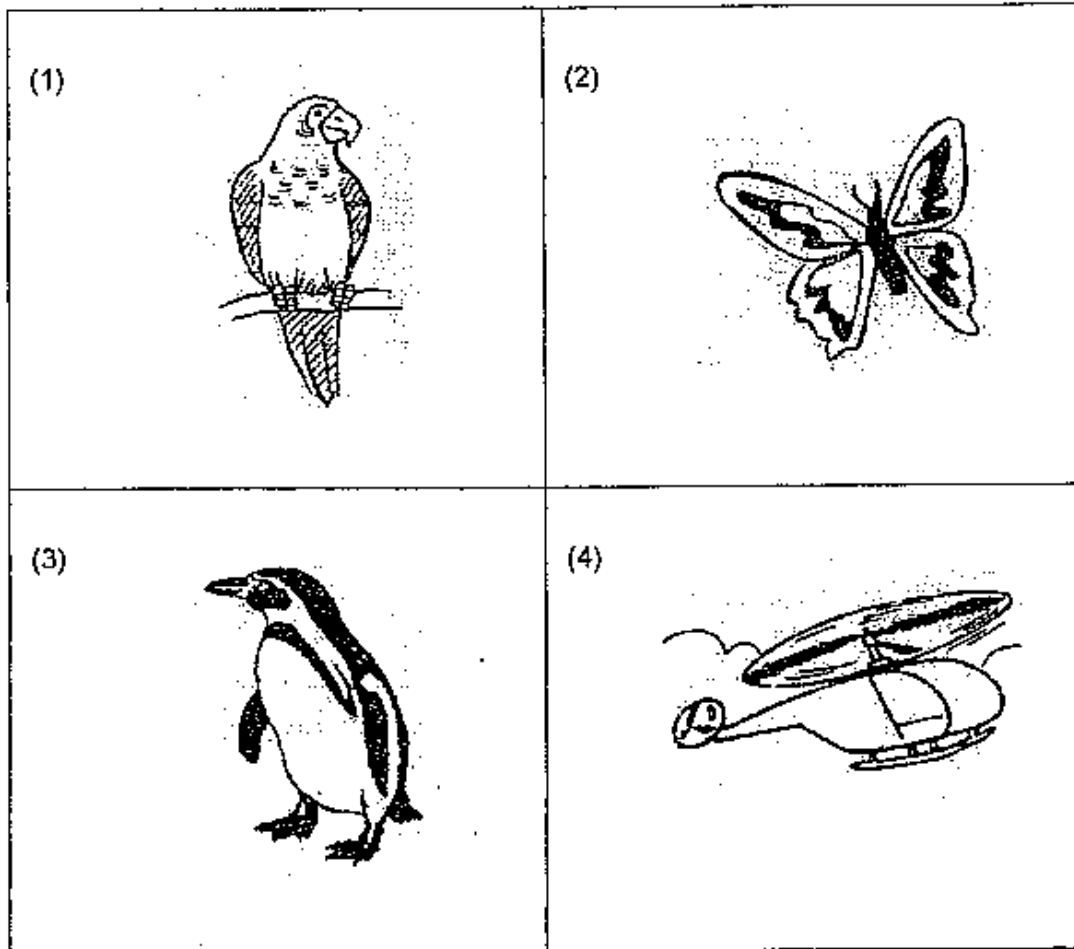
Which of the following represents the living things and non-living things in the picture?

	Living things	Non-living things
(1)	A	B, C, D
(2)	A, B	C, D
(3)	B, C	A, D
(4)	C, D	A, B

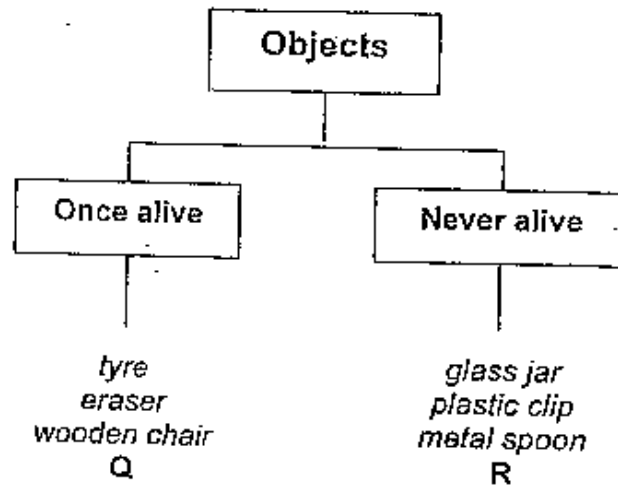
- 2 The table below shows the characteristics of K. A tick (✓) means it has that characteristic. A cross (X) means it does not.

	Needs air	Flies	Grows	Reproduces
K	✓	X	✓	✓

Which one of the following is K?



- 3 The following objects are classified according to whether they are made from things which were once alive or never alive.



What can objects Q and R be?

	Object Q	Object R
(1)	rubber band	leather belt
(2)	magnet	book
(3)	battery	cotton shirt
(4)	woollen sweater	thumbtack

- 4 Which one of the following animals is not an insect?



(1)



(2)

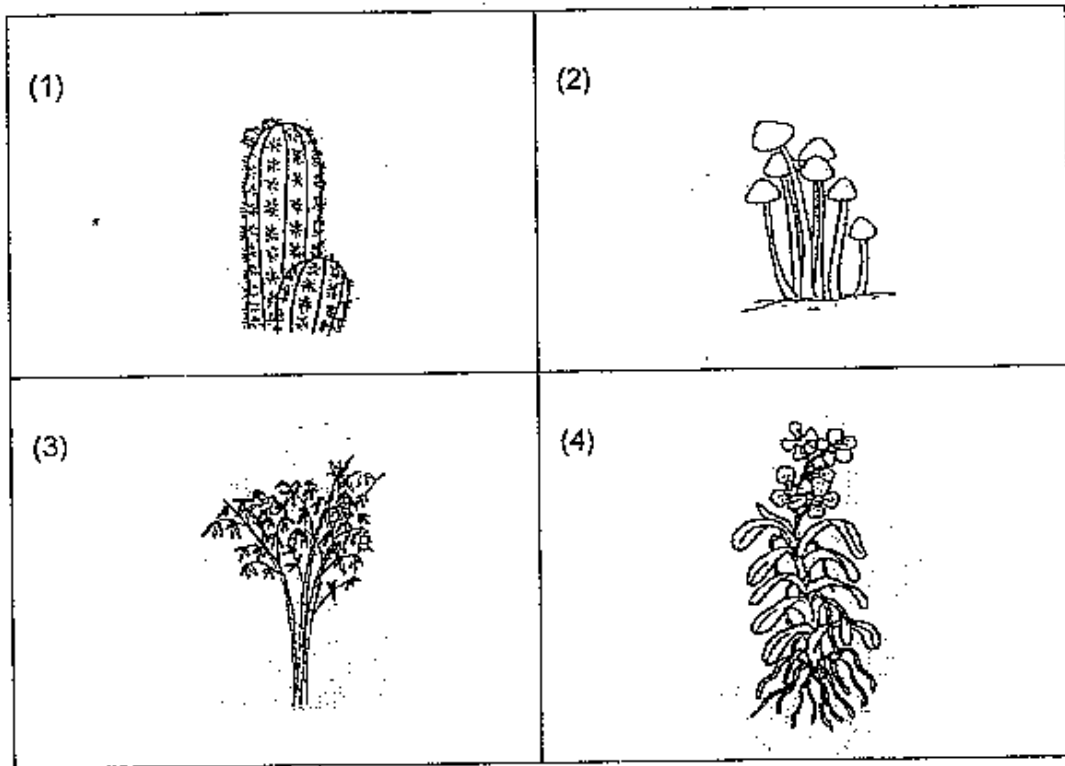


(3)



(4)

5 Which one of the following is not classified as a plant?



6 In what way is a deer different from a tiger?



deer



tiger

- (1) It lives on land.
- (2) It eats plants only.
- (3) It gives birth to live young.
- (4) Its young feeds on its mother's milk.

7 In what ways are a platypus and a whale similar?



platypus

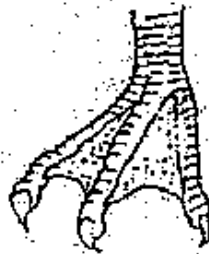


whale

- A Both lay eggs.
- B Both can swim.
- C Both are mammals.
- D Both have similar body coverings.

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

8 The diagram shows a foot of an animal.



Which one of the following animals has this type of foot?

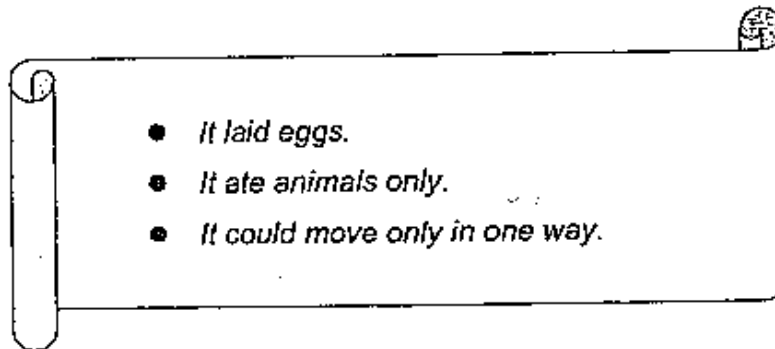
- (1) seal
- (2) swan
- (3) turtle
- (4) chicken

- 9 Four pupils wrote down some examples of flowering plants. Who gave an incorrect answer?

Edwin	allamanda, grass, oleander
Kenny	bougainvillea, lotus, ixora
Jeremy	water hyacinth, jasmine, moss
Brandon	cattail, hibiscus, mimosa

- (1) Edwin
- (2) Kenny
- (3) Jeremy
- (4) Brandon

- 10 Livingston observed an animal and listed down its characteristics.



Which one of the following could be the animal?

- (1) cobra
- (2) ladybird
- (3) kingfisher
- (4) hippopotamus

- 11 The table below shows the characteristics of 4 animals. A tick (✓) means it has the characteristics and a cross (X) means it does not. Which animal represents the guppy?

	Animal	Lays eggs	Breathes through lungs	Can swim
(1)	A	✓	X	✓
(2)	B	X	✓	✓
(3)	C	X	X	✓
(4)	D	X	✓	X

- 12 Some animals are grouped according to their characteristics. Which one of the following groups is incorrect?

(1)



(2)



(3)

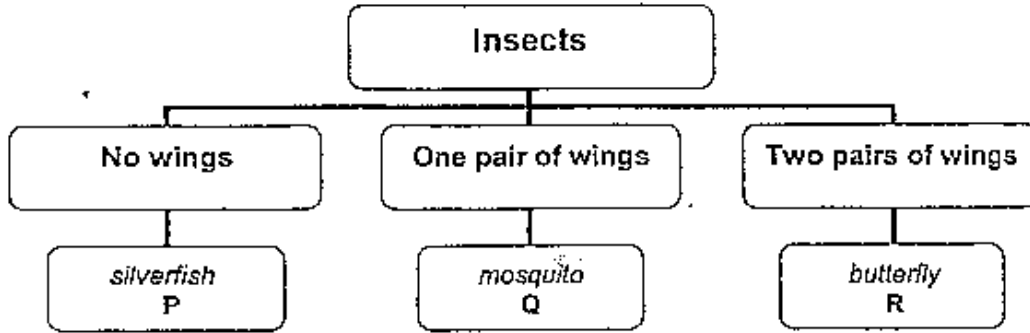


(4)





- 13 Study the table below. The insects are classified according to their number of wings.



Which one of the following insects could be insect Q?

(1)



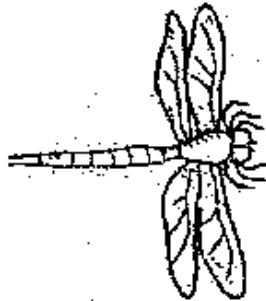
aphid

(2)



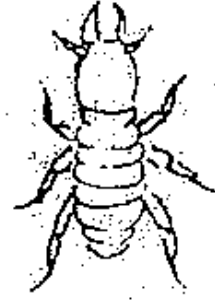
housefly

(3)



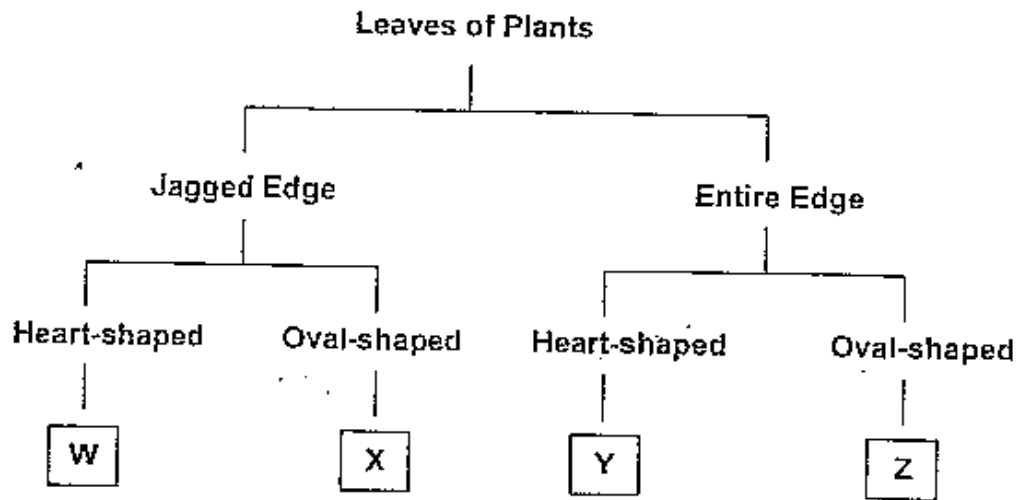
dragonfly

(4)



termite

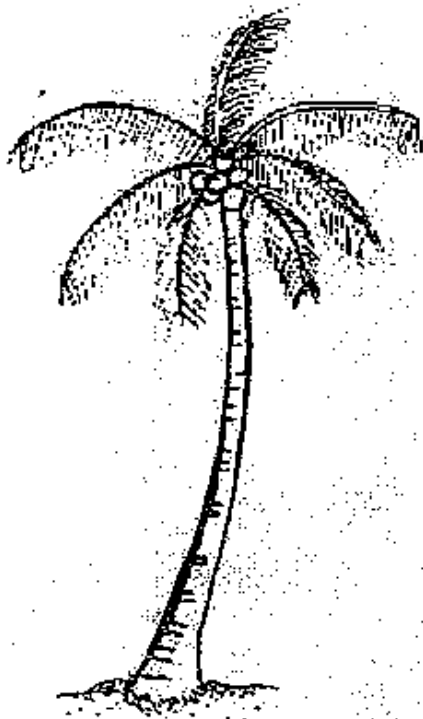
- 14 Sammy observed some leaves and grouped them according to his observations.



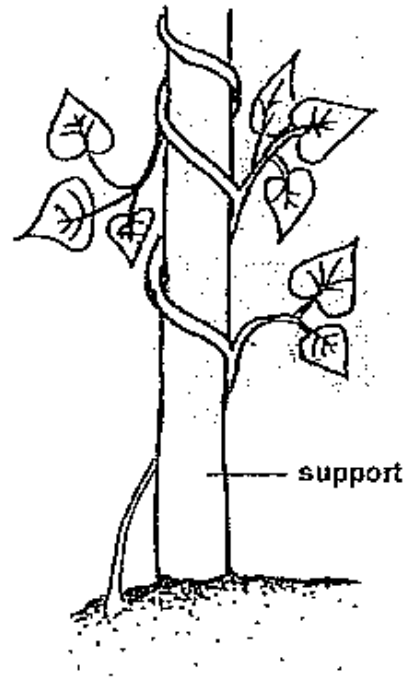
Which of the following could be leaf X and leaf Z?

	Leaf X	Leaf Z
(1)		
(2)		
(3)		
(4)		

- 15 The diagram shows a coconut tree and a money plant.



coconut tree



money plant

- Which one of the following statements is true?
- (1) Both have trunks.
  - (2) Both have branches.
  - (3) Both need to breathe.
  - (4) Both need help to stay upright.
- 16 Which one of the following groups consists of only micro-organisms?
- (1) algae and moss
  - (2) yeast and bacteria
  - (3) moss and bacteria
  - (4) mould and toadstool

17 Which one of the following is not a fruit?

(1)



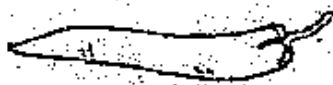
shorea

(2)



broccoli

(3)



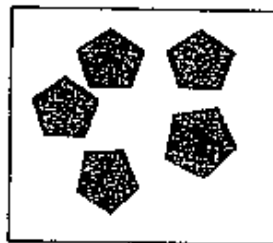
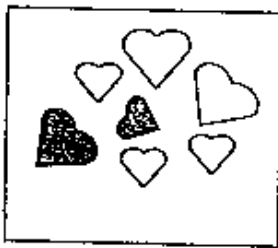
chilli

(4)



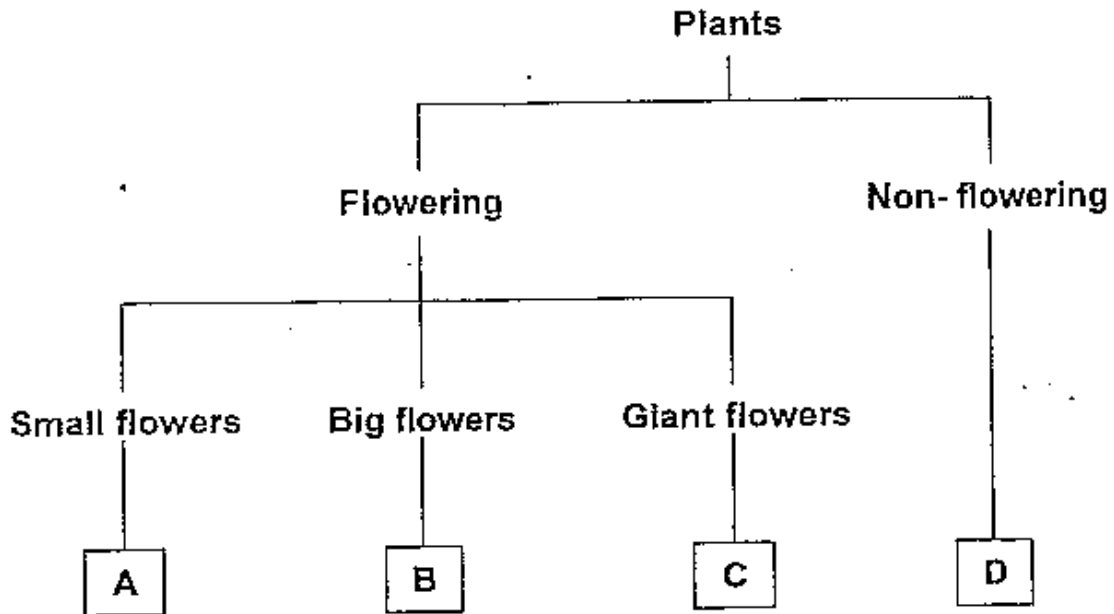
angana

18 The objects in the pictures below are grouped according to their \_\_\_\_\_.



- (1) sizes
- (2) lengths
- (3) colours
- (4) shapes

19 In the classification diagram below, A, B, C and D represent different plants.



Which one of the following plants could be C?

- (1) ixora
- (2) moss
- (3) rafflesia
- (4) maidenhair fern

20 Which one of the four plants is listed correctly next to the place where it is commonly found?

	Plant	Place
(1)	cattail	in the field
(2)	periwinkle	on another plant
(3)	stag's horn fern	on fences
(4)	hydrilla	in the pond

21 Which one of the following items below will most likely have fungus growing on it after a few days?

(1)



dried flower

(2)



sea water

(3)



wet log of wood

(4)



clean, dry paper

22 John classified the following animals into two groups.

<u>Group S</u>	<u>Group T</u>
lion	lizard
zebra	crocodile
hamster	cockroach

The animals have been grouped according to \_\_\_\_\_.

- (1) their outer covering
- (2) the place they live in
- (3) the way they reproduce
- (4) the kind of food they eat

23 What is the common material found in the following objects?



television



spectacles



photo frame



wine goblet

- (1) glass
- (2) wood
- (3) paper
- (4) rubber

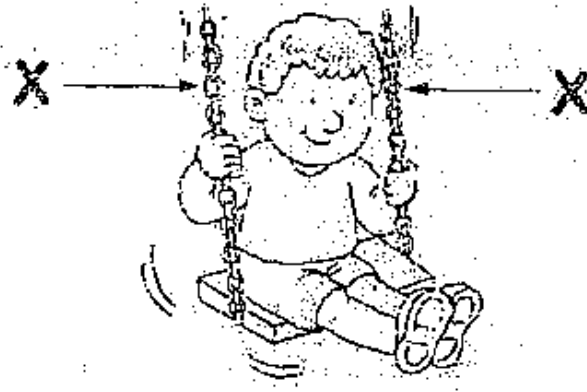
24 Robin conducted several tests on materials J, K, L, and M. He tabulated his results below.

Properties	Materials			
	J	K	L	M
<i>It can bend.</i>	x	✓	✓	x
<i>It can stretch.</i>	x	✓	✓	x
<i>It breaks when dropped.</i>	x	x	x	✓
<i>It is waterproof.</i>	✓	x	✓	✓

Which material would you use to make a raincoat?

- (1) J
- (2) K
- (3) L
- (4) M

- 25 Jonathan can sit on the swing safely as X is made of a certain material. What is this material?



- (1) steel
  - (2) wool
  - (3) wood
  - (4) cardboard
- 26 Justin found the following information on some plants.

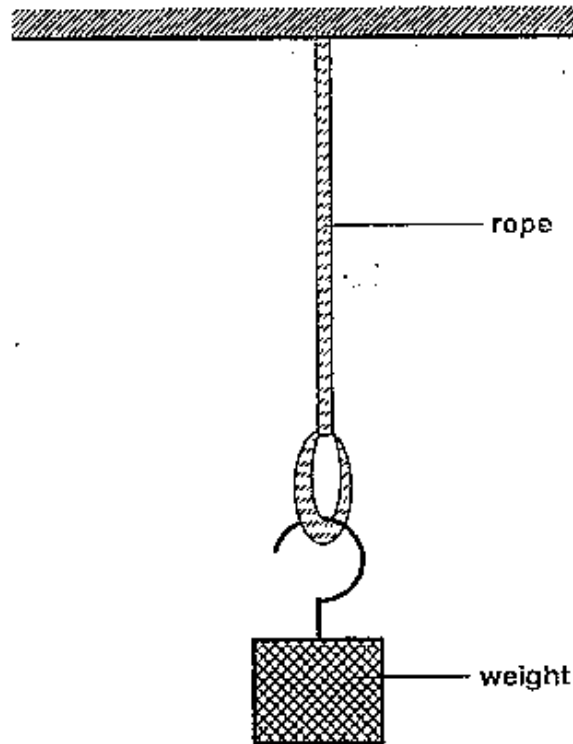
Plant	Information
Dumbcane	Causes the tongue to swell badly.
Lantana	Affects the heart and brain, may cause death.
Oleander	Causes very bad stomachache, may cause death.
Pong Pong	Causes blindness.
Allamanda	Causes vomiting and diarrhoea.

The plants described above can best be grouped together as \_\_\_\_\_ plants.

- (1) water
- (2) flowering
- (3) poisonous
- (4) non-flowering



- 27 Colin hung different weights on a rope to see how much weight it could carry before it broke. Which characteristic of the rope was he trying to test?

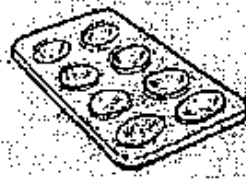


- (1) strength
  - (2) flexibility
  - (3) hardness
  - (4) ability to sink
- 28 Which of the following statements about fungi is not true?
- (1) All mushrooms are fungi.
  - (2) Puff balls can make their own food.
  - (3) Bracket fungus does not contain chlorophyll.
  - (4) Moulds are fungi that can be found on stale food.

29. Which one of the following water plants floats on the surface of the water?

- (1) lotus
- (2) hydrilla
- (3) water lily
- (4) water lettuce

30. The diagram below shows a baking tray.



baking tray

Which of the following objects below are not made from the same material as the baking tray?



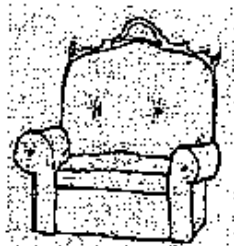
rolling pin

A



saucepan

B



armchair

C



nail clipper

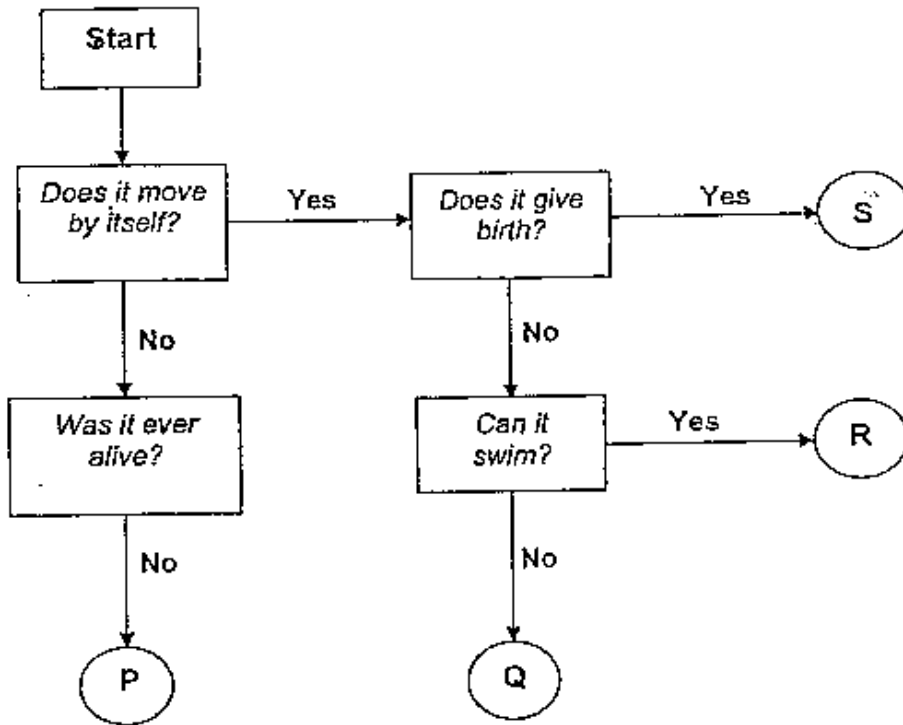
D

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

**Section B (40 marks)**

Write your answers for questions 31 to 46 in this booklet. Fill in the blanks with the correct answers.

31 Study the flow chart carefully.



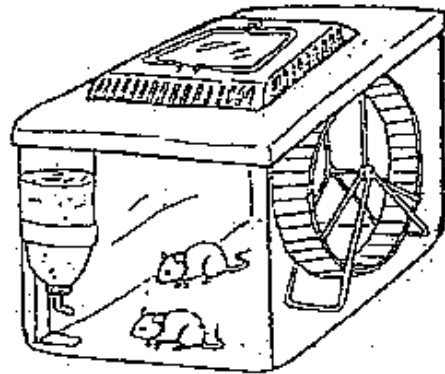
(a) Classify the following things under the letter where they belong. [2]

*clownfish      duckweed      paper clip      rabbit*

P	Q	R	S

(b) From the flow chart, what can you say about the thing grouped under P? [1]

32 Wayne set up a hamster tank as shown below.



He counted the number of hamsters in the tank at the end of every month and recorded the results in the table below.

Month	Number of hamsters
January	2
February	2
March	2
April	7

(a) What can you say about the number of hamsters at the end of April? [1]

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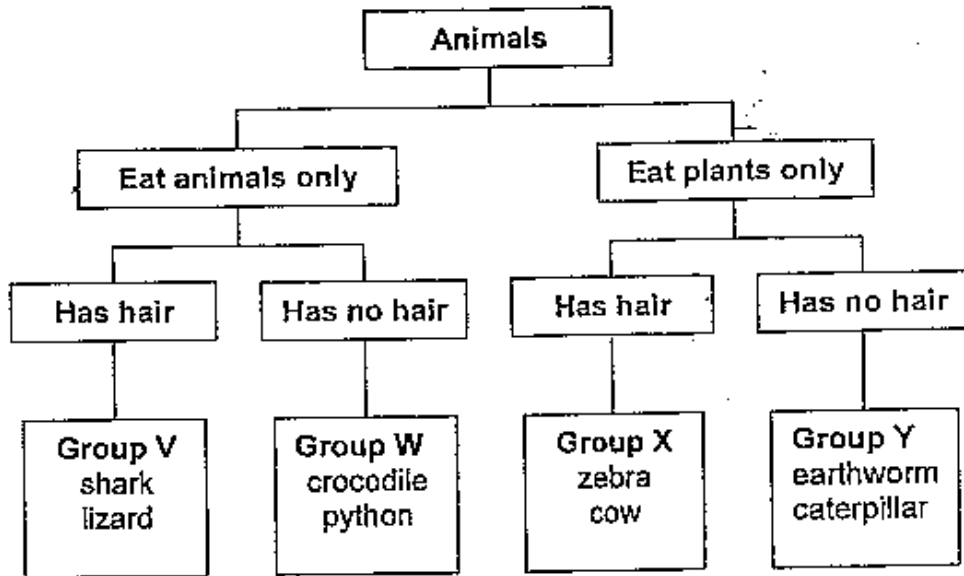
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(b) If Wayne did not add any new hamsters to the tank, give a possible reason for your answer in (a). [1]

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33 The diagram classifies animals into 4 groups.



(a) Which group of animals has been wrongly classified? [1]

Group \_\_\_\_\_

(b) Give a reason for your answer in (a). [1]

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(c) 'Bear' cannot be classified into any of the groups. Why? [1]

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34 Read each statement and write T for 'True' and F for 'False'.

[2]



mushroom



long bean plant

- (a) Both are living things. ( )
- (b) One of them reproduces by seeds. ( )
- (c) The mushroom can make its own food. ( )
- (d) The long bean plant feeds on decaying things. ( )

35 Fill in each blank with the correct word which best describes the movement of the following animals. Use each word only ONCE.

[3]

<i>slithers</i>	<i>crawls</i>	<i>swims</i>	<i>hops</i>	<i>flies</i>	<i>runs</i>
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- (a) A snail \_\_\_\_\_
- (b) A kangaroo \_\_\_\_\_
- (c) An ostrich \_\_\_\_\_
- (d) A cobra \_\_\_\_\_
- (e) A peregrine falcon \_\_\_\_\_
- (f) An eel \_\_\_\_\_

36 Observe the two animals below.



Animal P



Animal Q

(a) State one similarity in their appearance.

[1]

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(b) State one difference in their appearance. Do not mention the size or shape.

[1]

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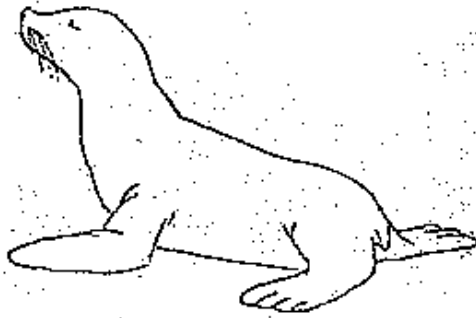
37 The diagrams show 4 animals.



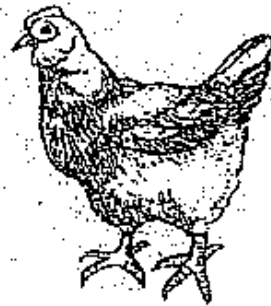
kiwi



panda



seal



hen

Group the animals in the table below. Fill in the blanks with their names.

[2]

Group A	Group B
vulture	pig
woodpecker	rat
_____	_____
_____	_____

601



38 A few descriptions about some animals are given below.

Animal K

- I cannot fly.
- I lay eggs.

Animal M

- I have 6 legs.
- I lay eggs.

Animal L

- I can fly.
- I give birth to live young.

Animal N

- I can swim.
- I lay eggs.

Identify animals K, L, M and N below. Write the correct letter in the box below each picture. [2]

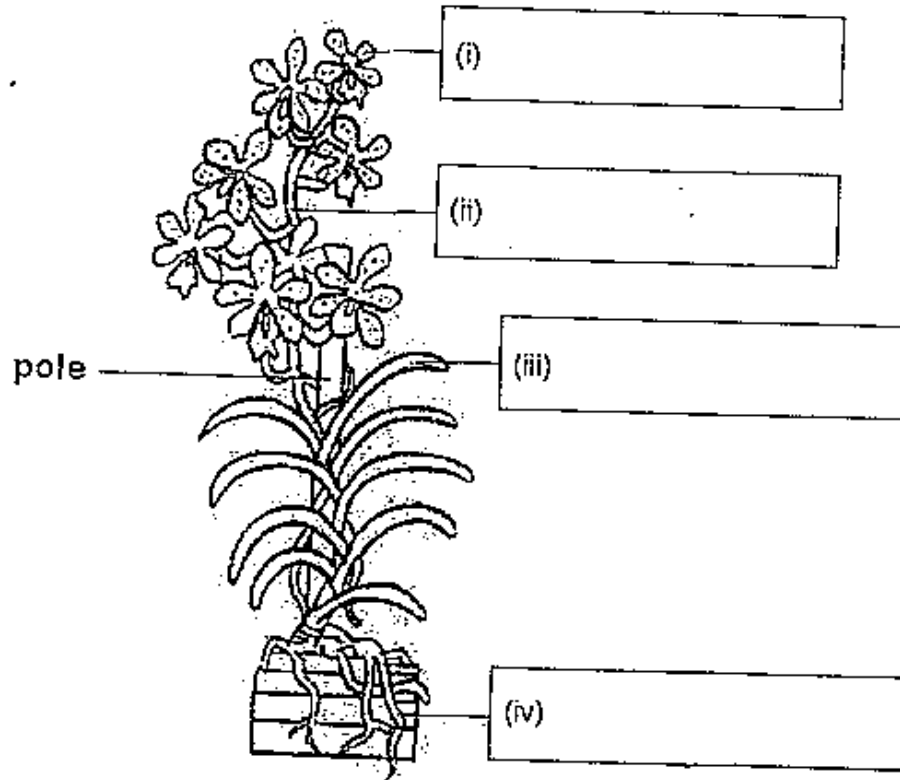


42

39 The diagram below shows an orchid plant.

(a) Label the plant parts by writing the names in boxes (i) to (iv).

[2]



(b) Why does the orchid plant need a pole to support it?

[1]

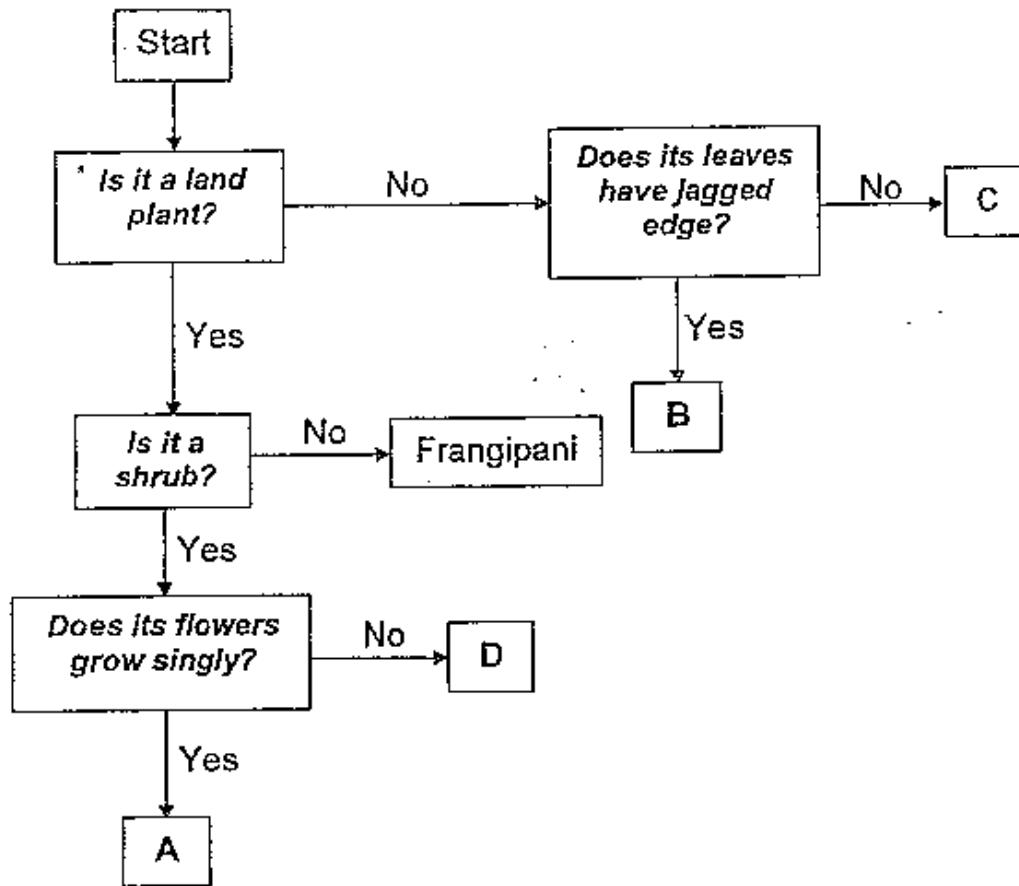
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403

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40 The diagram shows a flow chart which can be used to identify some plants.

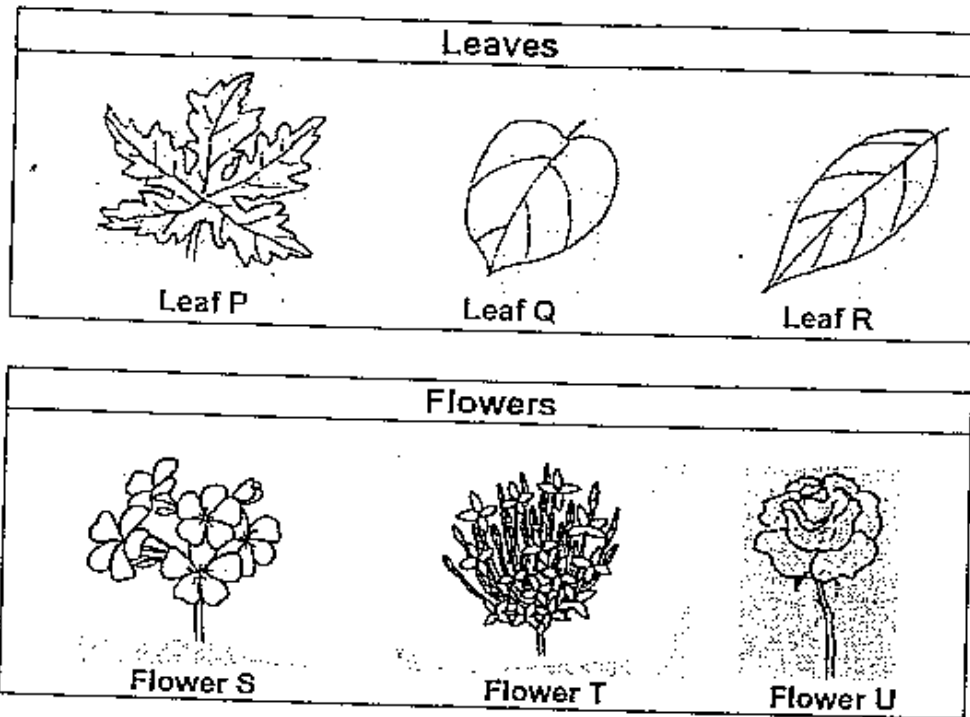


Refer to the flowchart and complete the table below by writing A, B, C and D in the boxes. [2]

Water Lily	
Jasmine	
Hydrilla	
Sunflower	

4/4

- 41 Jenny plucked some flowers and leaves from the garden and separated them as shown below.



- (a) State one way in which all the leaves are different. Do not mention the size.

[1]

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- (b) Which one of the flowers is not like the other two? Give a reason for your answer.

[2]

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50

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42 Draw 4 lines to match a plant to an appropriate statement.

[2]

(a)

Grass

*It has large flowers.*

(b)

Mango

*It has very tiny flowers.*

(c)

Papaya

*Its fruit has one seed.*

(d)

Hibiscus

*Its fruit has many seeds.*

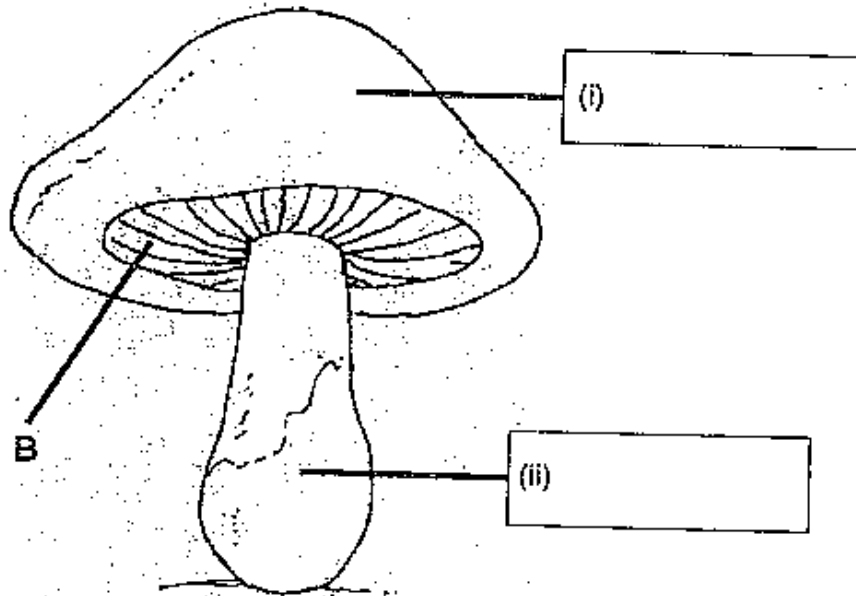
446

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43 The diagram shows a mushroom.

(a) Label the parts by writing the names in boxes (i) and (ii). Use the helping words given in the table below. [2]

Gills	Cap	Stalk
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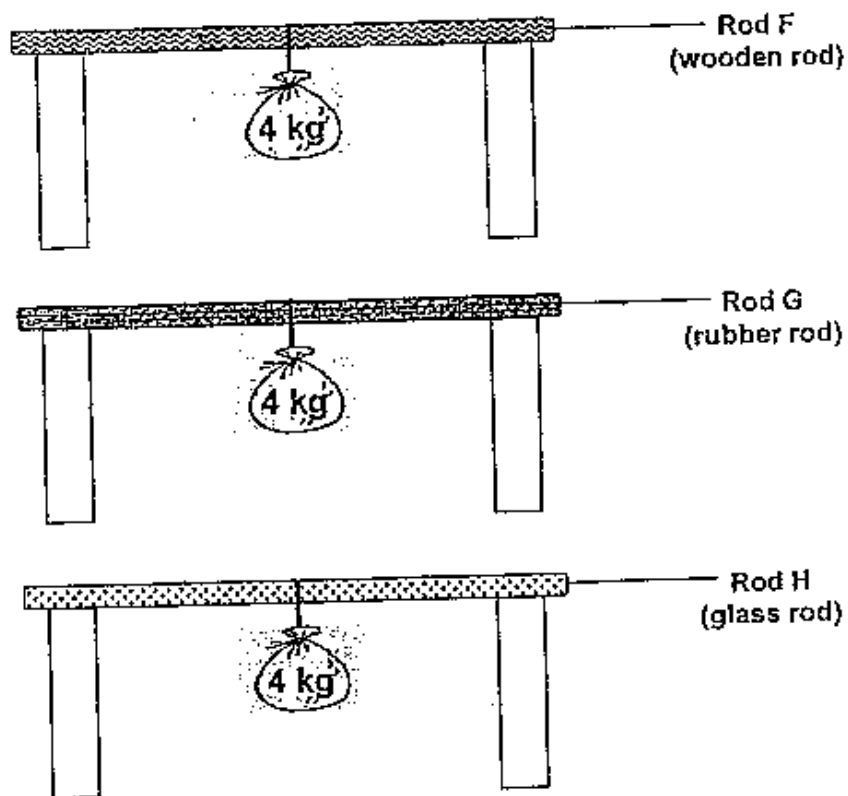
(b) Fill in the blank with a suitable word.

Part B helps the mushroom to reproduce by spores which are very tiny in size. They are released by the mushroom and are then carried by the \_\_\_\_\_ . When they land on suitable places for growth, they grow into new fungi. [1]

40

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44 Darryl hung a 4 kg weight onto 3 rods F, G and H as shown below.



After a while, one rod broke, one was bent and one remained as it was.

(a) Which rod was bent? \_\_\_\_\_ [1]

(b) Darryl wanted to use one of the rods to make a walking stick for his grandfather. Which rod would be most suitable? Why? [2]

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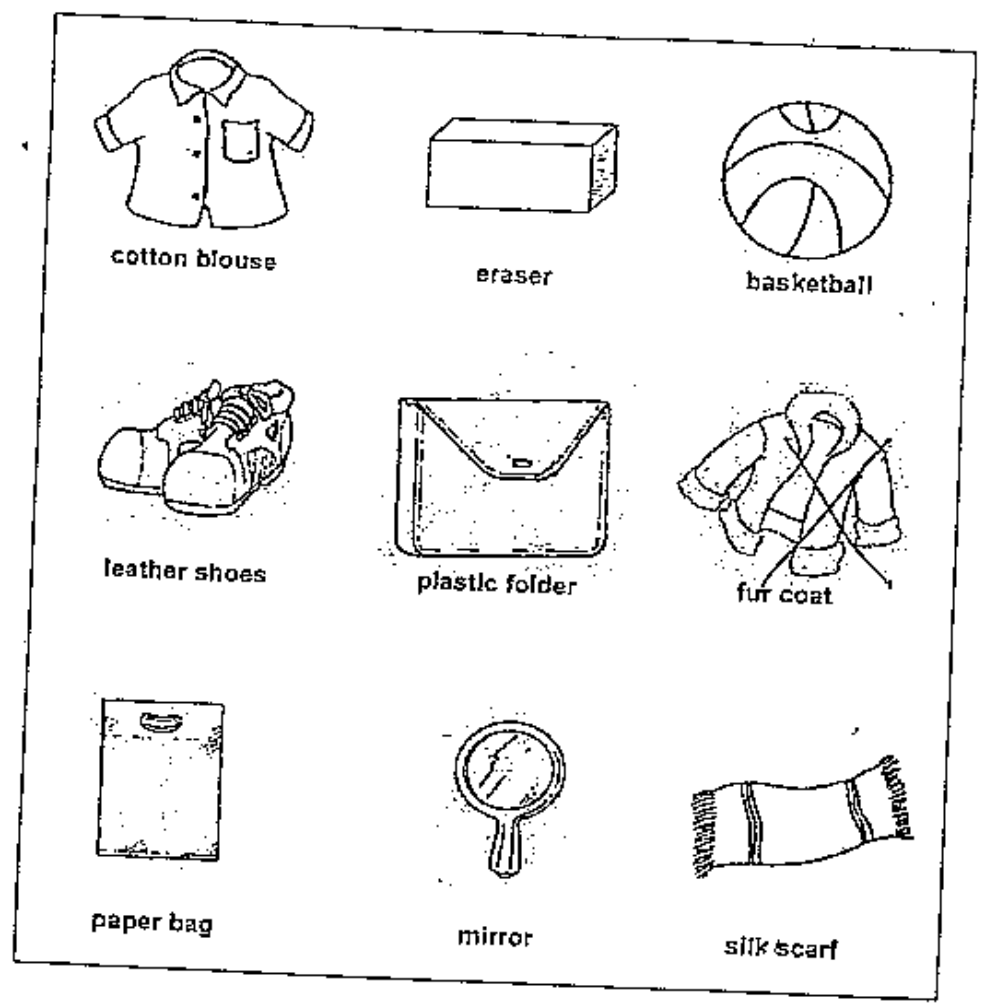
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48

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45 The objects listed below are made of different materials.



- (a) Circle all the objects which are made of material that comes from plants. [1]
- (b) Amy threw all the objects into a swimming pool and held them down. When she let go, one object floated up. Which object was this? Why did it float up? [2]

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49



46 Mark placed a handkerchief, a bag and a piece of paper into a basin of blue-coloured water. After five minutes, he took them out and recorded his findings in the table below.

Object	Before putting into water	After putting into water
<i>Handkerchief</i>	<i>white in colour, light, soft and not easily torn</i>	<i>blue in colour, light, soft and not easily torn</i>
<i>Bag</i>	<i>red in colour, light, soft and not easily torn</i>	<i>remains unchanged</i>
<i>Paper</i>	<i>yellow in colour, light, soft and easily torn</i>	<i>blue in colour, light, soft and easily torn</i>

What material is the bag made of? Why did the bag remain red in colour? [2]

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☺ End of Paper ☺

**Answer Sheets**  
**Anglo Chinese Pri 3 SAI / 2006 Science**

- |       |       |       |       |       |
|-------|-------|-------|-------|-------|
| 1) 3  | 2) 3  | 3) 4  | 4) 1  | 5) 2  |
| 6) 2  | 7) 4  | 8) 2  | 9) 3  | 10) 1 |
| 11) 3 | 12) 3 | 13) 2 | 14) 4 | 15) 3 |
| 16) 2 | 17) 2 | 18) 4 | 19) 3 | 20) 4 |
| 21) 3 | 22) 3 | 23) 1 | 24) 3 | 25) 1 |
| 26) 3 | 27) 1 | 28) 2 | 29) 4 | 30) 2 |

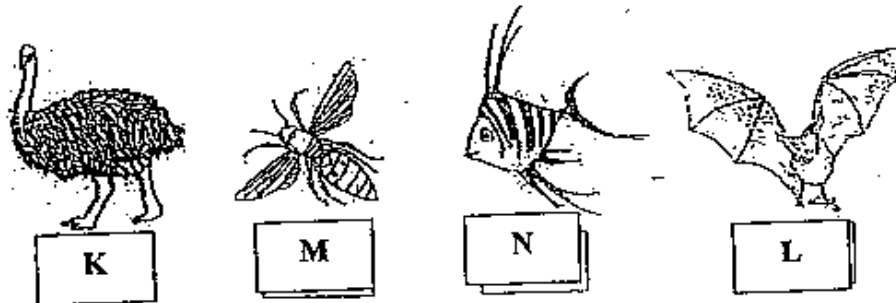
- Q31a. P : Paper clip  
Q : Duckweed  
R : Clownfish  
S : Rabbit
- b. Non-living things that were never alive are made from materials that were never alive.
- Q32a. The numbers of hamsters increased.  
b. The hamsters reproduced
- Q33a. Group V  
b. Sharks and lizards have scales on their bodies.  
c. Bear is an omnivores.
- Q34a. Both are living things (True)  
b. One of them reproduces by seeds (True)  
c. The mushroom can make its own food (False)  
d. The long bean feeds on decaying things (False)
- Q35a. A snail : crawls  
b. A kangaroo : hops  
c. An ostrich : run  
d. A cobra : slithers  
e. A peregrine falcon : flies  
f. A eel : Swim

- Q36a. Both have tails.  
 b. Animal P body is cover with scales while Animal Q body is cover with fur.

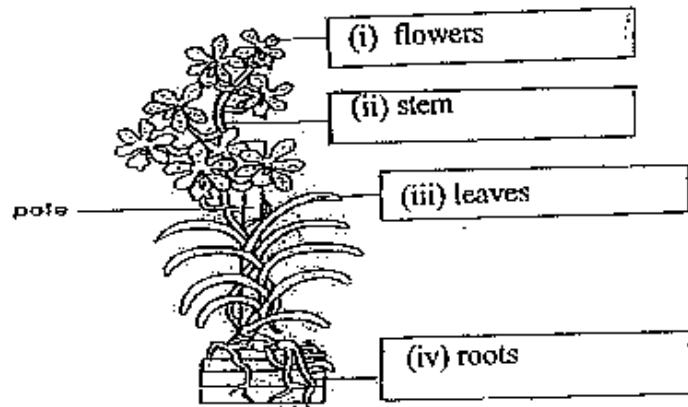
Q37.

Group A	Group B
Vulture	Pig
Woodpecker	Rat
Hen	Panda
Kiwi	Seal

Q38.



Q39a.

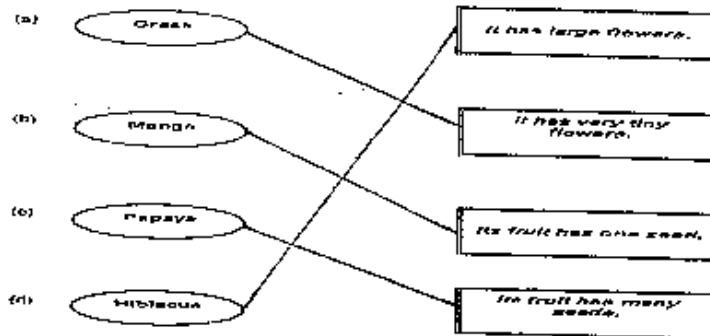


- b. It has a weak stem, its cling on pole for support to get more sunlight.

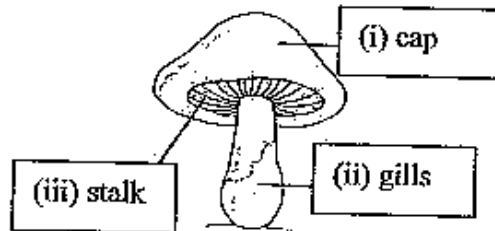
- Q40. Water lily : B  
 Jasmine : D  
 Hydrilla : C  
 Sunflower : A

- Q41a. All the leaves have different edges and shapes.  
 b. Flower U, Flower S and T grow in clusters while Flower U grow singly.

Q42



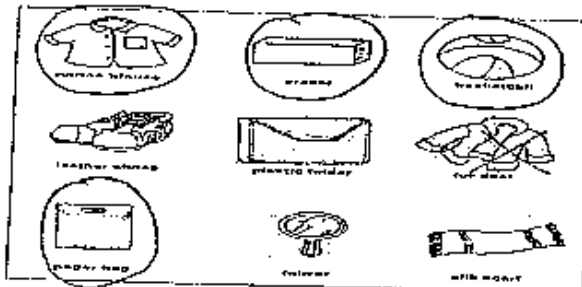
Q43a.



- b. Part B helps the mushroom to reproduce by spores which are very tiny in size. They are released by the mushroom and are then carried by the wind. When they are land on suitable places for growth, they grow into new fungi.

- Q44a. Rod G (rubber rod)  
 b. Rod F (Wooden rod). Wood is hard and strong.

Q45a.



- b. Plastic folder. It is light, waterproof and durable.  
 Q46. It is made of plastic. It is waterproof and does not allow water to pass through it.