

SAT

ANGLO-CHINESE SCHOOL (JUNIOR)
SEMESTRAL ASSESSMENT 1 (2005)
SCIENCE
PRIMARY THREE

NAME : _____ ()
CLASS : P3 _____
DATE : 12th May 2005

BOOKLET A

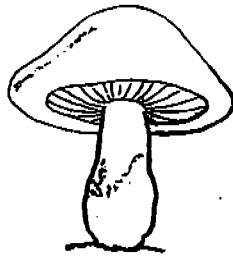
Total Time (Booklets A and B) : 1 hour and 30 minutes

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

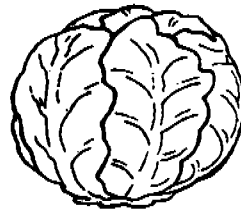
Part I (60 Marks)

Choose the correct answer for each question and shade its number on the OAS provided.

1 The pictures below show two things.



mushroom



cabbage

State one similarity and difference between the two things.

| | Similarity | Difference |
|-----|-------------------------------|------------------------------------|
| (1) | Both can be eaten | The mushroom has chlorophyll |
| (2) | Both cannot be eaten | The mushroom reproduces from seeds |
| (3) | Both can make food | The cabbage reproduces from spores |
| (4) | Both need water, food and air | The cabbage makes its own food |

2 Which of the following are non-living things?

- A earthworm
- B rubber band
- C wooden ruler
- D bird's nest fern

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

- 3 The table shows the number of deer in a jungle over a period of 4 weeks.

| Week | Number of Deer |
|------|----------------|
| 1 | 50 |
| 2 | 43 |
| 3 | 38 |
| 4 | 30 |

What could have caused the changes in the number of deer?

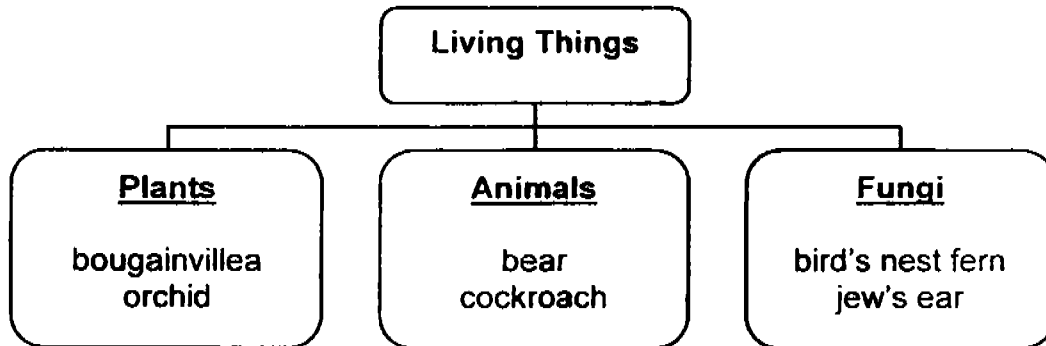
- (1) A decrease in the number of birds.
 - (2) Many of the deer gave birth to young.
 - (3) Good rainfall resulting in more plants.
 - (4) A new pride of lions came into the jungle.
- 4 Jane notes down some properties of organism X.

| Organism X |
|--|
| <ul style="list-style-type: none">• <i>It is a micro-organism.</i>• <i>It needs air, food and water.</i>• <i>It can be used to make bread.</i> |

What can organism X be?

- (1) fern
 - (2) yeast
 - (3) yogurt
 - (4) bacteria
- 5 Benjamin saw an animal in the park. He noticed it could swim and fly. Which one of the following animals did he see?
- (1) bee
 - (2) frog
 - (3) swan
 - (4) snake

6 Look at the classification table below.



Which object is classified wrongly?

- (1) orchid
- (2) cockroach
- (3) bougainvillea
- (4) bird's nest fern

7 The table below shows how some organisms have been grouped according to their characteristics.

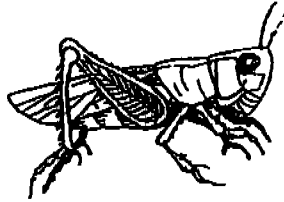
| <u>Group A</u> | <u>Group B</u> |
|----------------|----------------|
| spiny anteater | guppy |
| grasshopper | cow |
| turtle | whale |
| lizard | human |

What would be suitable headings for Groups A and B?

| | <u>Group A</u> | <u>Group B</u> |
|-----|-----------------------------|----------------------------|
| (1) | Eats plants | Eats plants and animals |
| (2) | Are insects | Are mammals |
| (3) | Lays eggs | Gives birth to their young |
| (4) | Have shells on their bodies | Have hair on their bodies |

4

8 Which one of the animals does not reproduce by laying eggs?



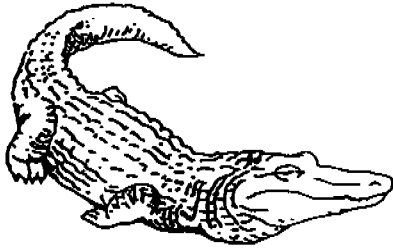
grasshopper

(1)



kiwi

(2)



crocodile

(3)



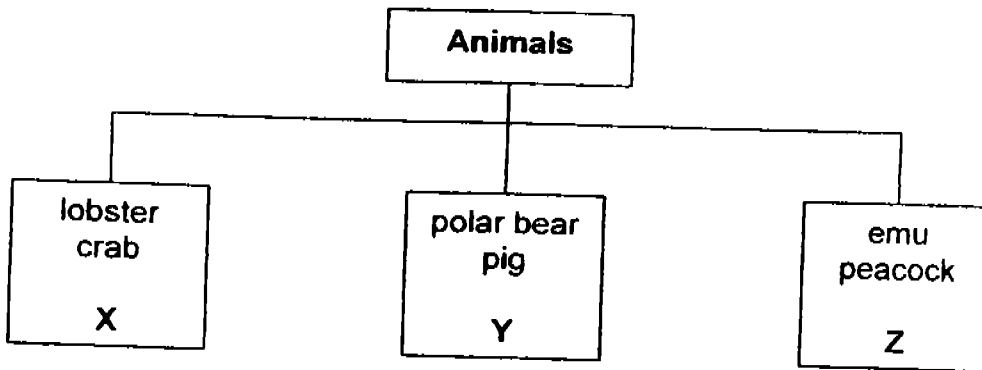
rat

(4)

9 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 goldfish?

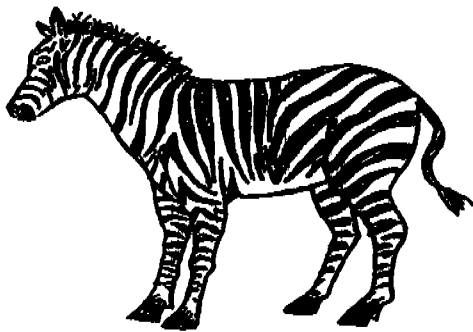
| | Animal | Has 6 legs | Has hair on its body | Reproduce by laying eggs | Live in water |
|-----|--------|------------|----------------------|--------------------------|---------------|
| (1) | A | X | X | ✓ | ✓ |
| (2) | B | ✓ | X | ✓ | X |
| (3) | C | X | ✓ | X | X |
| (4) | D | X | ✓ | X | ✓ |

- 10 The animals below are grouped according to their outer coverings. What animals can X, Y and Z be?



| | X | Y | Z |
|-----|-----------|----------|-----------|
| (1) | prawn | mosquito | bat |
| (2) | jellyfish | cat | sparrow |
| (3) | snail | dog | ostrich |
| (4) | turtle | lizard | crocodile |

- 11 Look at the 2 animals below.



They are similar because _____.

- (1) they eat plants only
- (2) they can climb up trees
- (3) their young feed on milk
- (4) their young live in a pouch

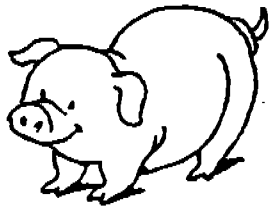
6

- 12 Sam placed 2 types of food, mixed vegetables and minced meat, into a cage with Animal Y in it. After a few days, he noticed that the amount of minced meat did not reduce but the mixed vegetables were gone.

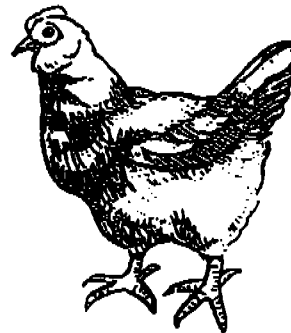
Animal Y is probably a _____.

- (1) dog
- (2) frog
- (3) lizard
- (4) rabbit

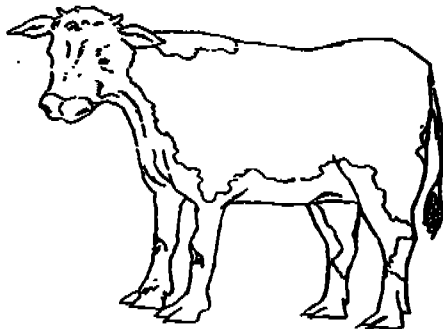
- 13 Which one of the animals does not live in the same place as the others?



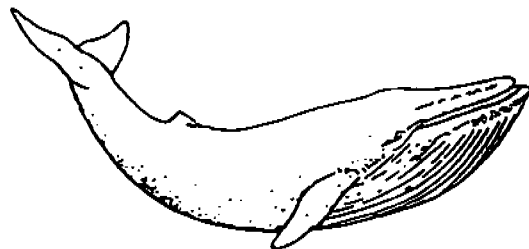
(1)



(2)

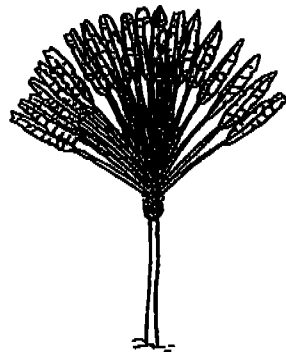


(3)



(4)

- 14 Which one of the following statements is true of **both** a snake and an earthworm?
- (1) It lives in water.
 - (2) It has no backbone.
 - (3) It moves with its body.
 - (4) It has an outer covering of scales.
- 15 The drawings show the shapes of some trees. Which one gives the most shade?



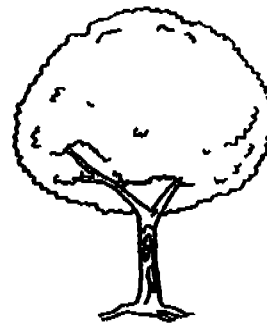
(1)



(2)



(3)



(4)

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

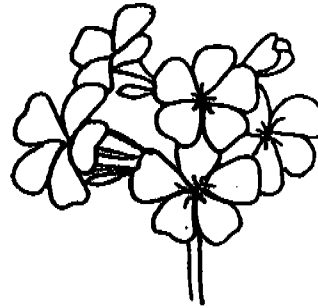
| | Plant | Place |
|-----|------------------|---------------------------|
| (1) | Bird's nest fern | On another plant |
| (2) | Hydrilla | On the walls of buildings |
| (3) | Cattail | In the field |
| (4) | Orchid plant | In the pond |

17 Which one of the following plants has flowers that are small and dull?



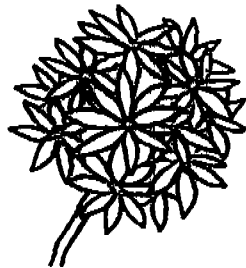
grass

(1)



frangipani

(2)



jasmine

(3)



ixora

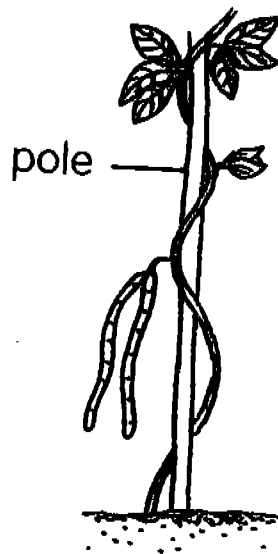
(4)

18 Which of the statements correctly describes the stag's horn fern?

- A It bears flowers.
- B It makes its own food.
- C It can be found growing on trees.
- D It reproduces by seeds.

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

- 19 The picture below shows a plant growing in the garden.



Which of the following statements is/are correct?

- A This plant has a weak stem
- B This is a non-flowering plant.
- C This plant has roots.


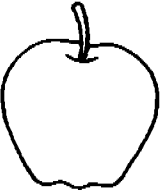


- (1) C only
- (2) A and C only
- (3) B and C only
- (4) A, B and C

- 20 Which of the following statements about micro-organisms are correct?

- A Yeast is used to make bread fluffy.
- B Cultured milk contains yeast which helps in digestion.
- C Some bacteria help to turn milk into cheese.
- D All micro-organisms are harmful to people.

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

21 The fruits below are put into 2 groups. How are they grouped?

| Group P | Group Q |
|--|--|
|  <p>angsapa fruit</p> |  <p>apple</p> |
|  <p>balsam fruit</p> |  <p>rambutan</p> |

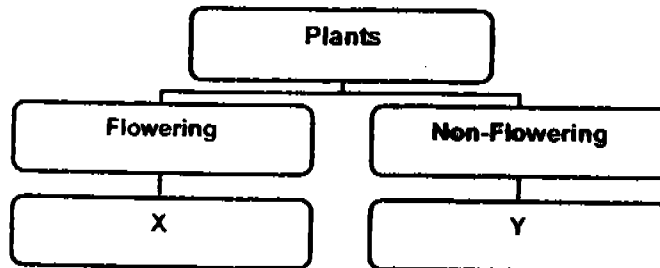
| | | |
|-----|----------------|----------------|
| | Group P | Group Q |
| (1) | Smooth skin | Hairy skin |
| (2) | Seedless | With seeds |
| (3) | Inedible | Edible |
| (4) | Juicy | Dry |

22 Mrs Lim planted some mushrooms in a container. Which is the **best** place to put the container so that the mushrooms grow well?

- (1) A cold, bright and dry room.
- (2) A cold, dark and damp room.
- (3) A warm, bright and dry room.
- (4) A warm, dark and damp room.

//

23 Study the table below.



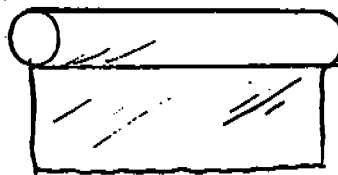
Which of the following could be X and Y?

| | X | Y |
|-----|---------------------|-------------|
| (1) | Flame of the Forest | Long bean |
| (2) | Water lily | Grasses |
| (3) | Frangipani tree | Ladder fern |
| (4) | Mosses | Chilli |

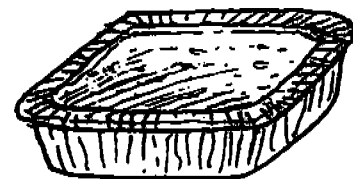
24 The pictures show 3 objects that are made from aluminum.



can



foil



container

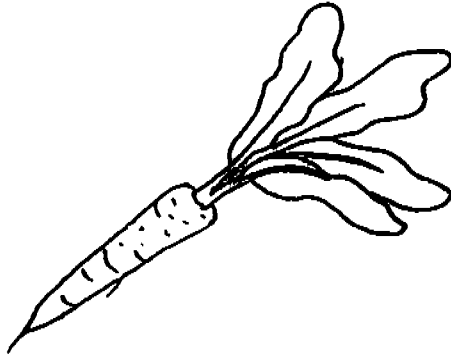
Why is aluminum used to make the above objects?

- A It is a light metal.
- B It is waterproof.
- C It is transparent.

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

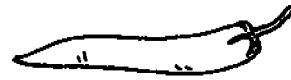
12

25 Which one of the following is not a fruit?



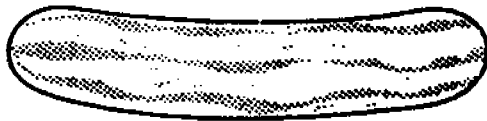
carrot

(1)



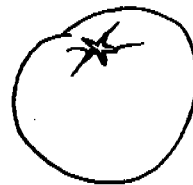
chilli

(2)



cucumber

(3)



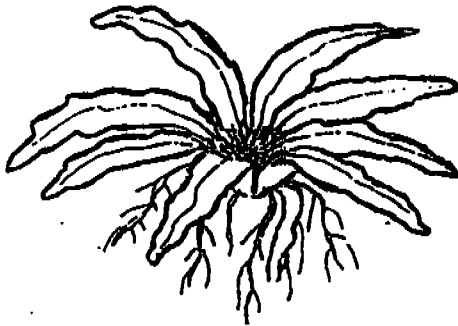
tomato

(4)

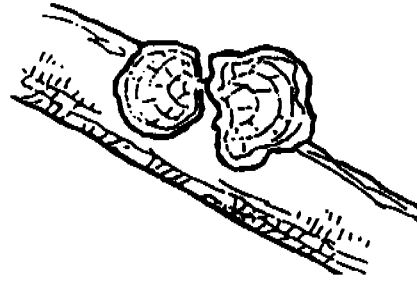
26 Which of the following consists of materials obtained from living things?

- (1) glass, clay, iron, sand
- (2) cotton, wool, nylon, silk
- (3) sand, gold, plastic, straw
- (4) rubber, paper, cotton, silk

27 The pictures show 2 organisms.



Bird's Nest Fern

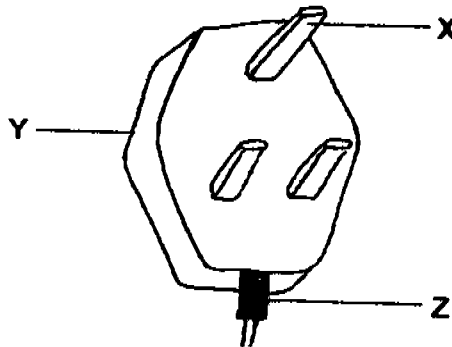


Bracket Fungus

How is the Bird's Nest Fern different from the Bracket Fungus?

| | Bird's Nest Fern | Bracket Fungus |
|-----|----------------------------|------------------------------------|
| (1) | It is a fungi. | It is a plant. |
| (2) | It reproduces by seeds. | It reproduced by spores. |
| (3) | It has no flowers. | It has flowers. |
| (4) | It needs sunlight to grow. | It does not need sunlight to grow. |

28 The diagram shows an electrical plug.

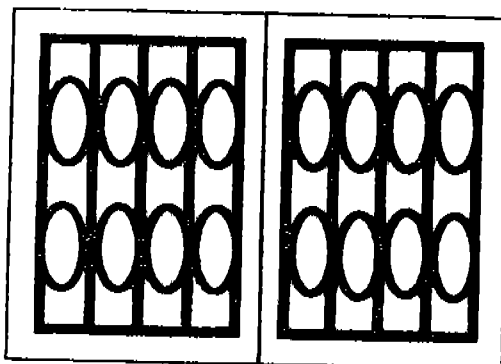


Which of the following correctly shows the materials used to make parts X, Y and Z?

| | X | Y | Z |
|-----|---------|---------|---------|
| (1) | Plastic | Plastic | Clay |
| (2) | Metal | Nylon | Plastic |
| (3) | Rubber | Metal | Plastic |
| (4) | Metal | Plastic | Rubber |

14

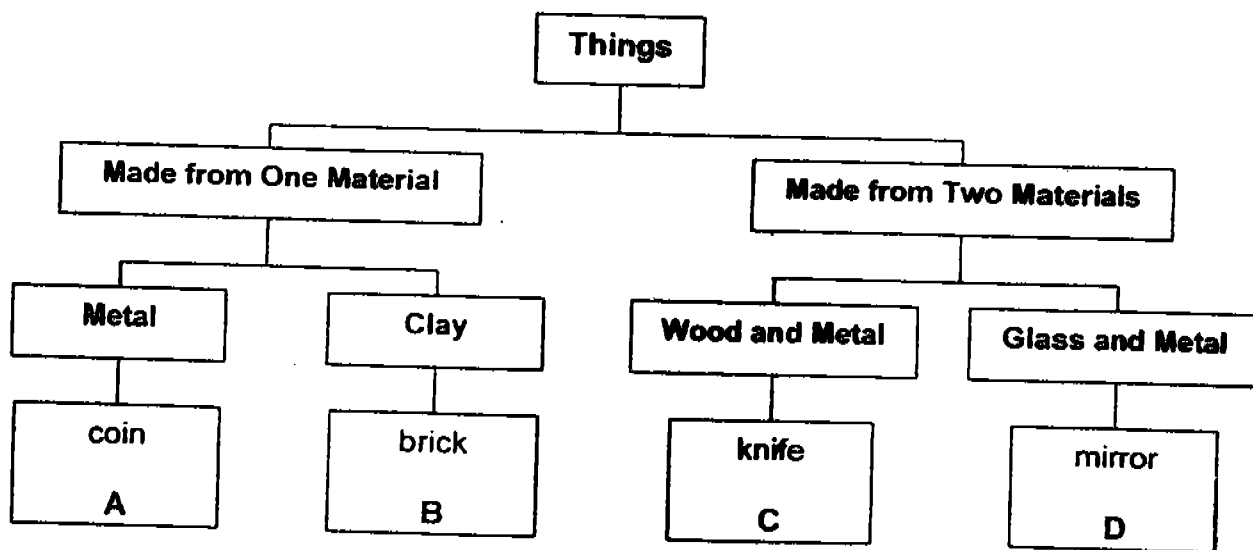
29 The diagram shows a window grille.



Which one of the following materials is most suitable for making the window grille?

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

30 The table shows some things grouped according to the materials they are made of.



Which of the following best represents a nail and a watch?

| | Nail | Watch |
|-----|------|-------|
| (1) | A | C |
| (2) | A | D |
| (3) | B | C |
| (4) | B | D |

15

**ANGLO-CHINESE SCHOOL (JUNIOR)
SEMESTRAL ASSESSMENT 1 (2005)
SCIENCE
PRIMARY THREE**

NAME : _____ ()
CLASS : P3 _____
DATE : 12th May 2005

BOOKLET B

Total Time (Booklets A and B) : 1 hour and 30 minutes

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

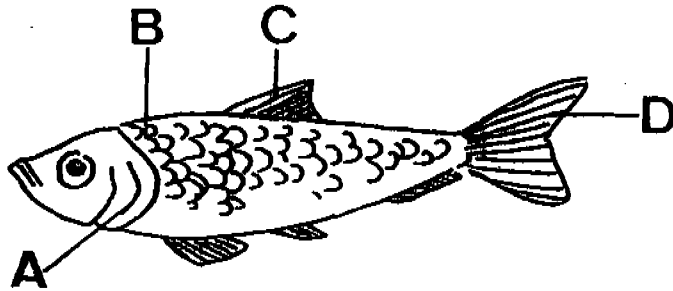
| | |
|-----------|------|
| BOOKLET A | /60 |
| BOOKLET B | /40 |
| TOTAL | /100 |

16

Part II (40 marks)

Write your answers to questions 31 to 46 in the spaces provided.

31 The diagram shows a fish.



(a) Which part (A, B, C or D) of the fish allows it to take in oxygen? [½]

(b) What is the outer covering of the fish? [½]

(c) Name another animal that has the same outer covering as the fish. [1]

32 Match each object to its property. [3]

Objects

rubber band •

beach ball •

window pane •

rock •

Properties

rough

transparent

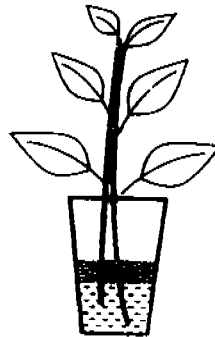
float

elastic

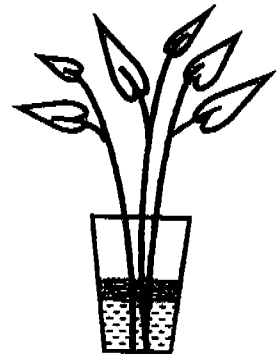
- 33 Three types of plants were placed into 3 identical containers filled with 200ml of water. A layer of oil was poured into each container to prevent the water from evaporating into the air.



Container A



Container B



Container C

The volume of water in each container was recorded on the 7th day in the table below.

| Container | Volume of water (ml) | |
|-----------|----------------------|-------|
| | Day 1 | Day 7 |
| A | 200 | 180 |
| B | 200 | 175 |
| C | 200 | 200 |

- (a) Which of the following containers (A, B or C) contained a plastic plant? [1]

Container _____

- (b) Explain why there was less water in Containers A and B on Day 7? [1]

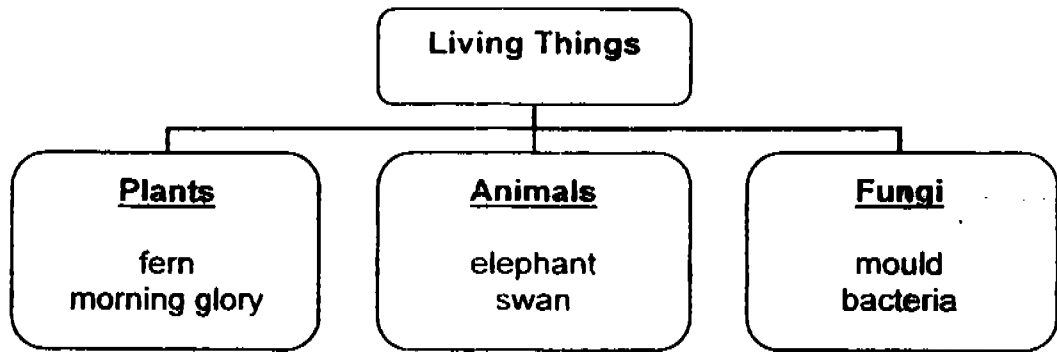
- (c) From this experiment, we can tell that a living thing needs

_____ to survive.

[1]

18

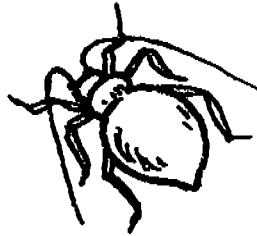
34 Study the classification chart below.



(a) Which item is wrongly classified? [1]

(b) In which group does an eel belong to? [1]

35 Observe the two insects below.



aphid

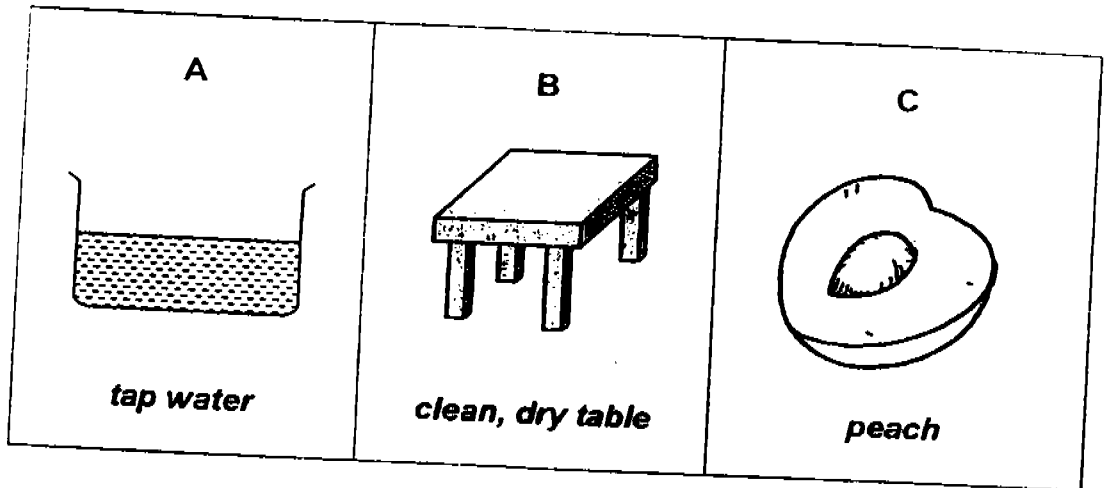


wasp

(a) List one similarity in their appearance. [1]

(b) List one difference in their appearance. [1]

36 Look at the diagrams below.

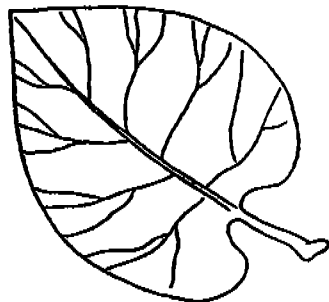


(a) On which object (A, B or C) will fungus grow on? [1]

Object : _____

(b) How does fungi reproduce? [1]

37 Observe the pictures of the two leaves below carefully.



Leaf A



Leaf B

Based on the pictures, state two differences between the leaves. (Do not compare their size) [2]

Difference 1: _____

Difference 2: _____

- 38 The table gives the characteristics of four organisms. A tick (✓) means that the organism has those characteristics.

| Characteristics | Organism | | | |
|--|----------|---|---|---|
| | W | X | Y | Z |
| An animal that has 3 body parts, lays eggs and can fly. | ✓ | | | |
| An organism that can make its own food and respond to changes. | | ✓ | | |
| An animal that lives in water, has scales on its body and give birth to young alive. | | | ✓ | |
| An organism that breaks down plants and animals that are dead or alive before feeding on them. | | | | ✓ |

- (a) Identify the following organisms represented by letters (W, X, Y or Z) in the table. Write the correct letter in each box. [2]

| | |
|--------------|--|
| mosquito | |
| mimosa plant | |

- (b) Name an organism that can represent the letter Y. [1]

- 39 John observed the heights of 2 objects over a period of 4 weeks and recorded his findings below.

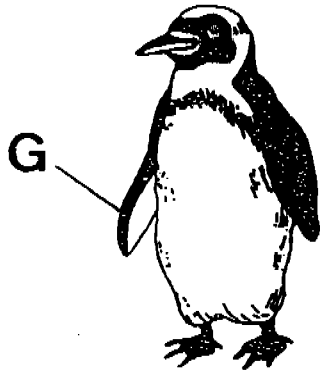
| | Height of Object A | Height of Object B |
|--------|--------------------|--------------------|
| Week 1 | 2 cm | 10 cm |
| Week 2 | 5 cm | 10 cm |
| Week 3 | 8 cm | 10 cm |
| Week 4 | 12 cm | 10 cm |

His friend, Alice, said that Object A is a living thing.
His brother, Bob, said that Object B is a living thing.

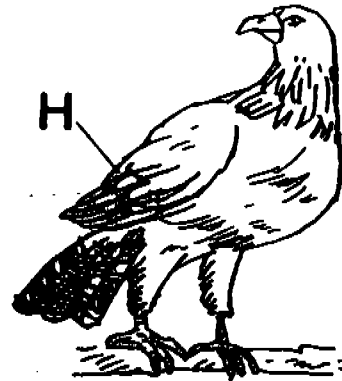
- (a) Who is most likely to be correct? [1]

- (b) From his observations, he can conclude that living things _____ [1]

40 Look at the animals below and answer the questions.



Animal A



Animal B

(a) Which group of animals do A and B belong to? [1]

(b) How do parts G and H help the animals to move? [2]

G : _____

H : _____

41 Three boys wrote the following statements after observing some plants.

Fred: *These ferns have no flowers.*

Jack: *The orchid and the rose plants are flowering plants.*

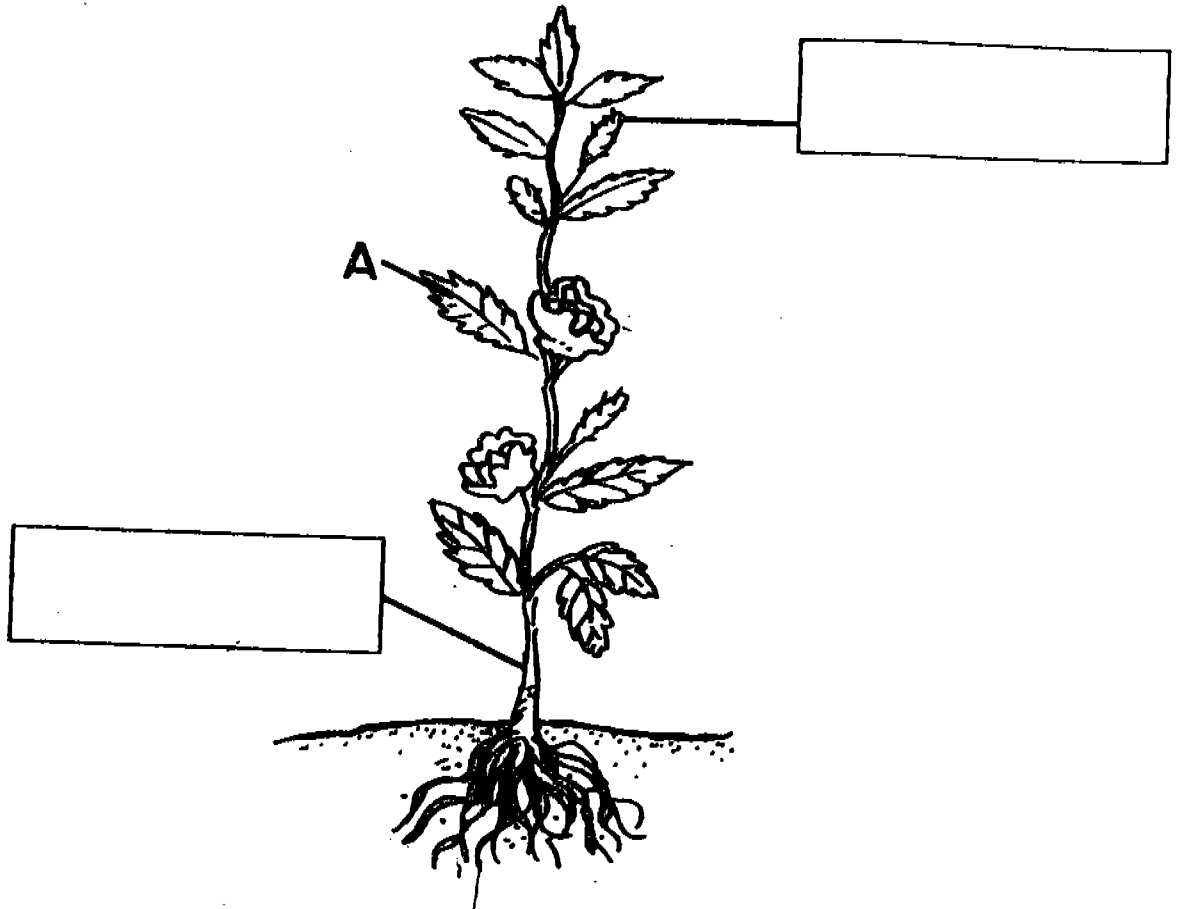
Tom: *The angšana tree and the balsam plant are non-flowering plants because there are no flowers on the tree.*

(a) Who wrote an incorrect statement? [1]

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

42 The diagram below shows a balsam plant.

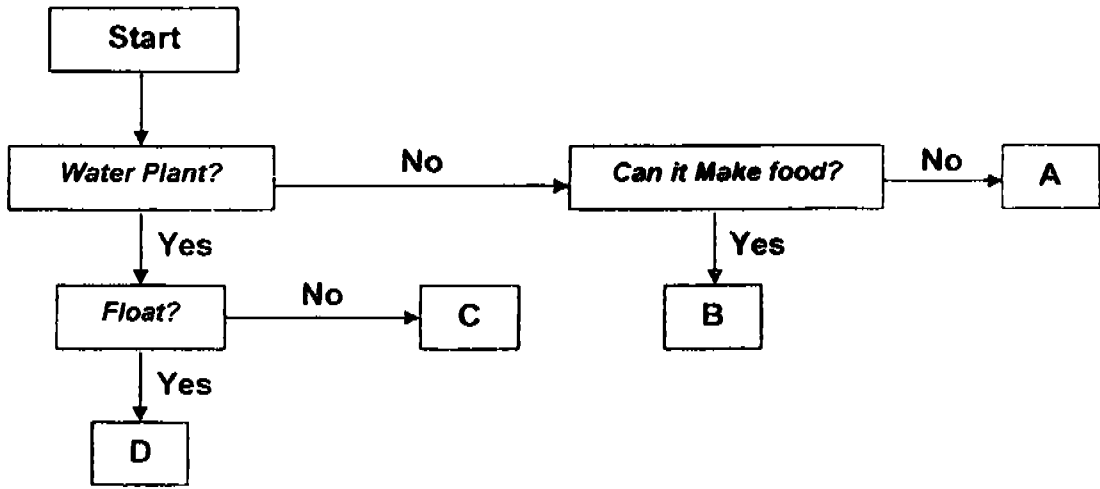
(a) Label the plant parts by writing the names in the boxes. [2]



(b) Part A is important to the plant because it contains _____ which is able to trap the energy of the sun's light. In this way, part A can make _____ for the plant.

[1]

43 Study the flow chart below.

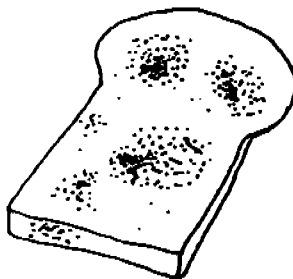


(a) Refer to the flowchart and complete the table below by writing A, B, C and D in the boxes. [2]

| | |
|-----------|--|
| Duckweed | |
| Hydrilla | |
| Puff ball | |
| Ixora | |

(b) In which group (A, B, C or D) would you place the moss? Why? [1]

- 44 A fresh piece of bread was left in a plastic bag. After some days, patches of thread-like things started to grow on the bread. Later, tiny black dots formed.

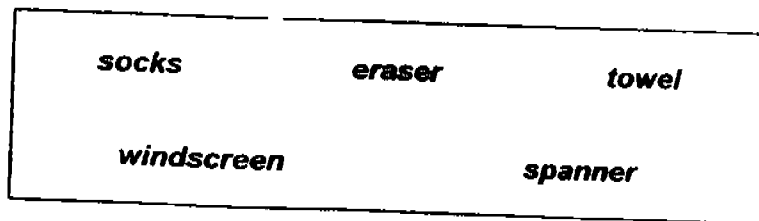


- (a) What are the thread-like things that grew on the bread? [1]

- (b) What are the tiny black dots? [1]

- (c) If the fresh piece of bread had been toasted instead, would you find the thread-like things on it? Why? [1]

- 45 The objects listed below are made from different materials.



- (a) Circle a pair of objects in the list that are made from the same material. [1]
- (b) What is the best material for making windscreen? Why? [1]

- 46 Rani examined some materials and used the checklist below to record their sources. A tick (✓) means that the material came from that source.

| Materials | Source of Materials | | |
|-----------|---------------------|---|---|
| | X | Y | Z |
| tin | | ✓ | |
| gold | | ✓ | |
| wool | ✓ | | |
| rattan | | | ✓ |
| bamboo | | | ✓ |
| leather | ✓ | | |
| iron | ? | ? | ? |
| nylon | ? | ? | ? |

- (a) What is the best heading for X (From Animals, From Plants or From the Ground)? [1]
-
- (b) Under which heading (X, Y or Z) should a tick be placed for iron? [1]
-
- (c) Can the checklist be used to record the source of nylon? Explain your answer. [1]
-

END OF PAPER

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Answer Sheets
ACS(Junior) School / Pri 3 SA1/2005 Science

- 1)4 2)2 3)4 4)2 5)3 6)4
- 7)3 8)4 9)1 10)3 11)3 12)4
- 13)4 14)3 15)2 16)1 17)1 18)2
- 19)2 20)4 21)3 22)4 23)3 24)1
- 25)1 26)4 27)4 28)4 29)1 30)2
- 31)a. part A b. scales c. The snake
- 32)rubber band=elastic, beach ball=float, window pane=transparent, rock=rough
- 33)a. C b. The plants take in absorbed water. C. water
- 34)a. Bacteria b. Animals 35)a. They both have six legs. B. The wasp
has wings but the aphid does not 36)a.C b.By spores
- 37)i. Leaf A has an entire edge but leaf B has a toothed edge.
- 37)ii. Leaf A is a heart-shaped but B is lance shaped
- 38)a. mosquito =W mimosa plant=X b.Guppy
- 39)a.Alice b.living things grow 40)a.The birds
- 40)b. G: helps the animal to swim H: helps the animals to fly
- 41)a. Tom b.If a plant bears fruits they have flowers.
- 42)Fruit (top) , stem(bottom) b.chlorophyll, food
- 43)a.Duckweed :D hydrilla:C Puff Ball:A Ixora :B
- 43)b.I would place it in group B because it is not a water plant and can make food.
- 44)a. Bread mould b. spore cases c)No, the mould does not
grow on dry things.
- 45)a.socks =towels b.Glass. Glass is transparent
- 46)a.From Animals b.Y c.No,Nylon is man-made.