Test: Primary 3 - Term 4 (SA2) Science (Catholic High)

Points: 58 points

Name: _____ **Score:** _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

- ○ Only select one answer
- ☐ Can select multiple answers

Question 1 of 44

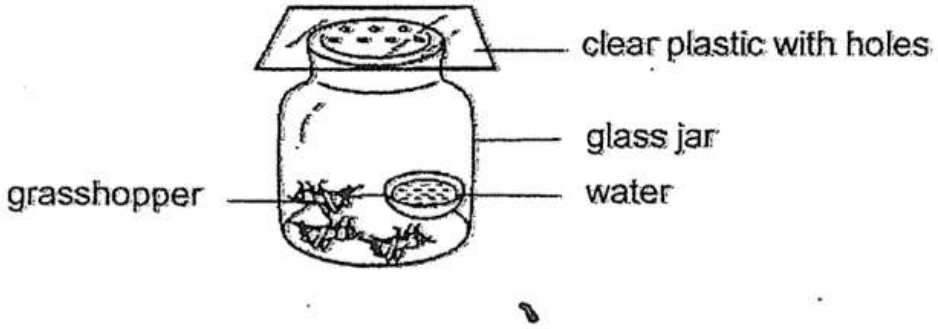
Primary 3 Science (Term 4) 2 pts

SECTION A (24 x 2 marks)
For each question from 1 to 24, four options are given. One of them is the correct answer.

Which one of the following is a characteristic of all living things?

- ○ **A)** They feed on plants.
- ○ **B)** They need sunlight to grow.
- ○ **C)** They can grow from young to adult.
- ○ **D)** They reproduce by giving birth to young.

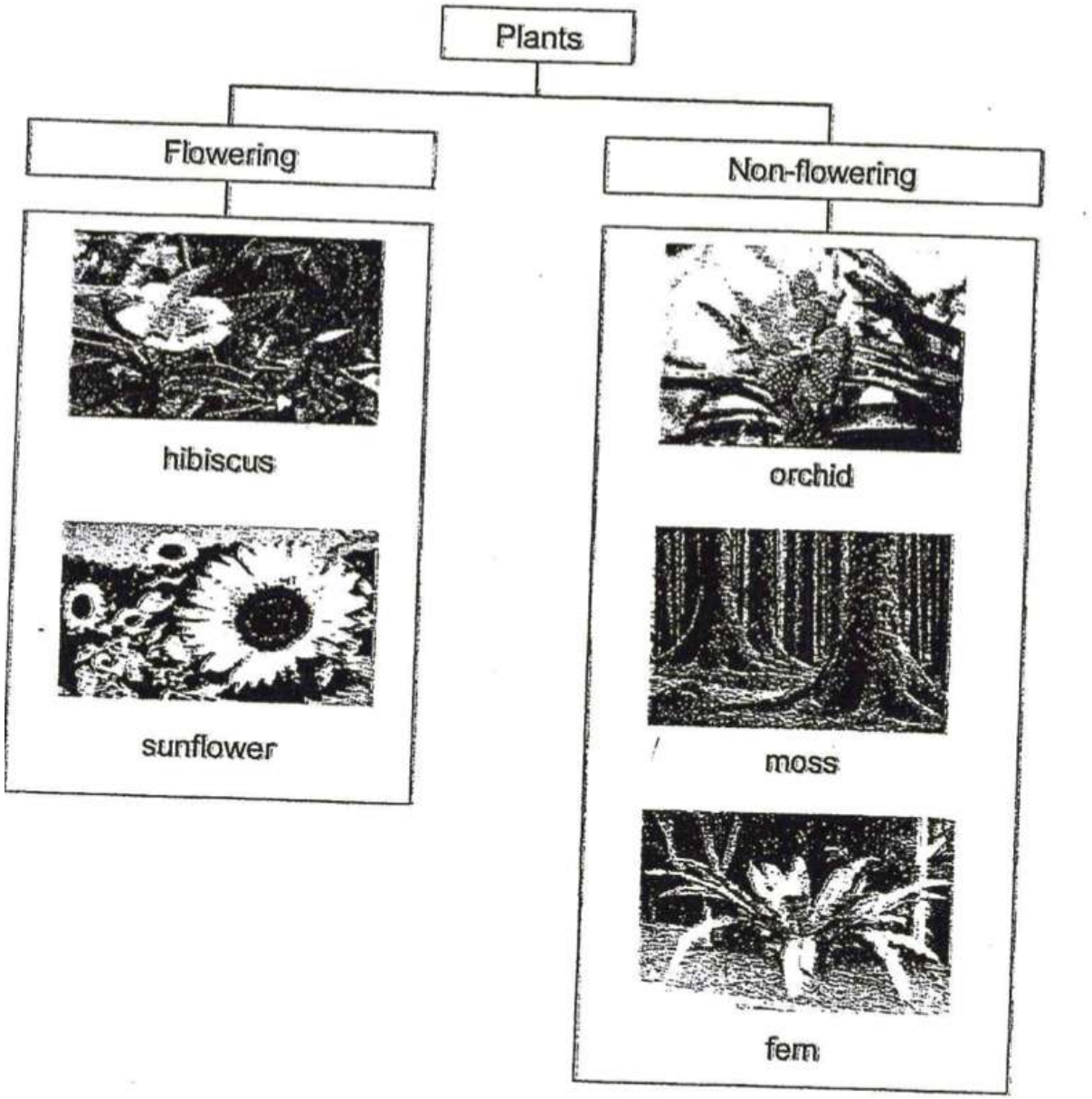
May put three grasshoppers and a dish of water in a glass jar. She used a sheet of clear plastic with some tiny holes to cover the jar as shown below. After a week, all the grasshoppers died.



What could May have done so that the grasshoppers would stay alive?

- **A)** Put some grass into the jar.
- **B)** Take out two grasshoppers.
- **C)** Place the jar in an open field.
- **D)** Put some moist soil into the jar.

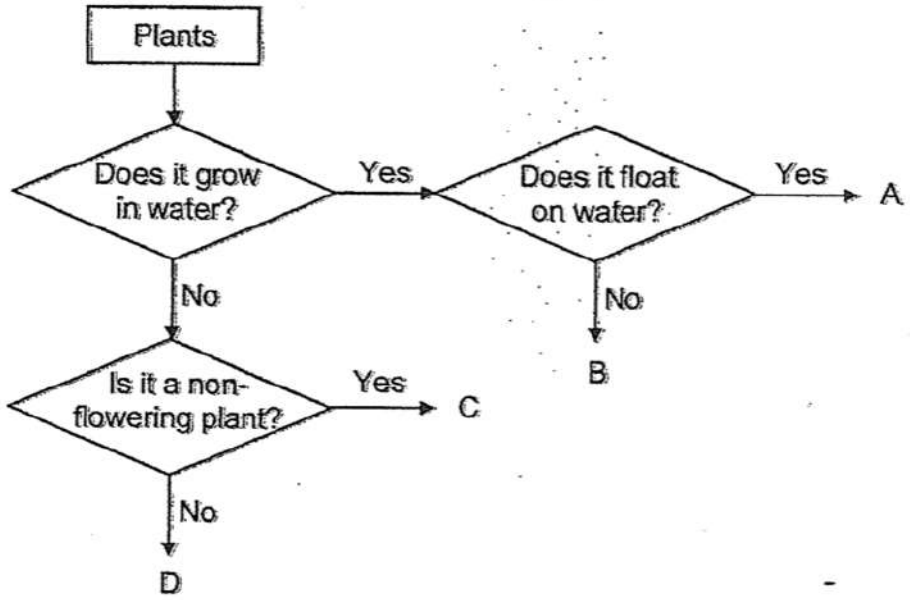
James classified some plants as shown below.



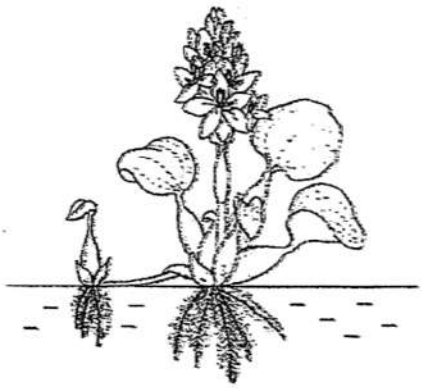
Which plant is not classified correctly?

- **A)** fern
- **B)** orchid
- **C)** hibiscus
- **D)** sunflower

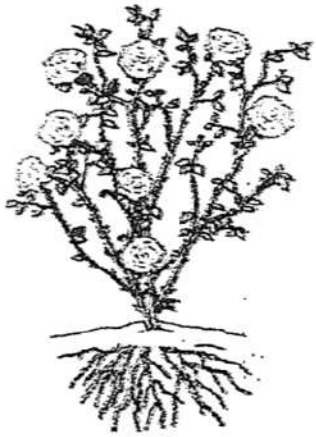
4 Study the chart below.



Which letters, A, B, C or D, represent the water hyacinth and the rose plant?



water hyacinth



rose plant

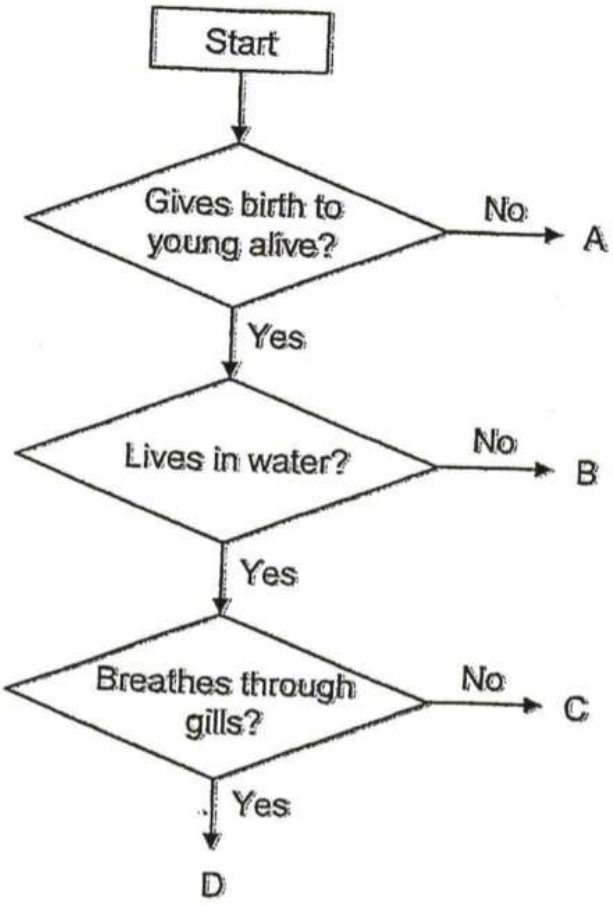
	water hyacinth	rose plant
(1)	A	C
(2)	A	D
(3)	B	C
(4)	B	D

- **A)** 1
- **B)** 2
- **C)** 3

D) 4

Question 5 of 44 Primary 3 Science (Term 4) 2 pts

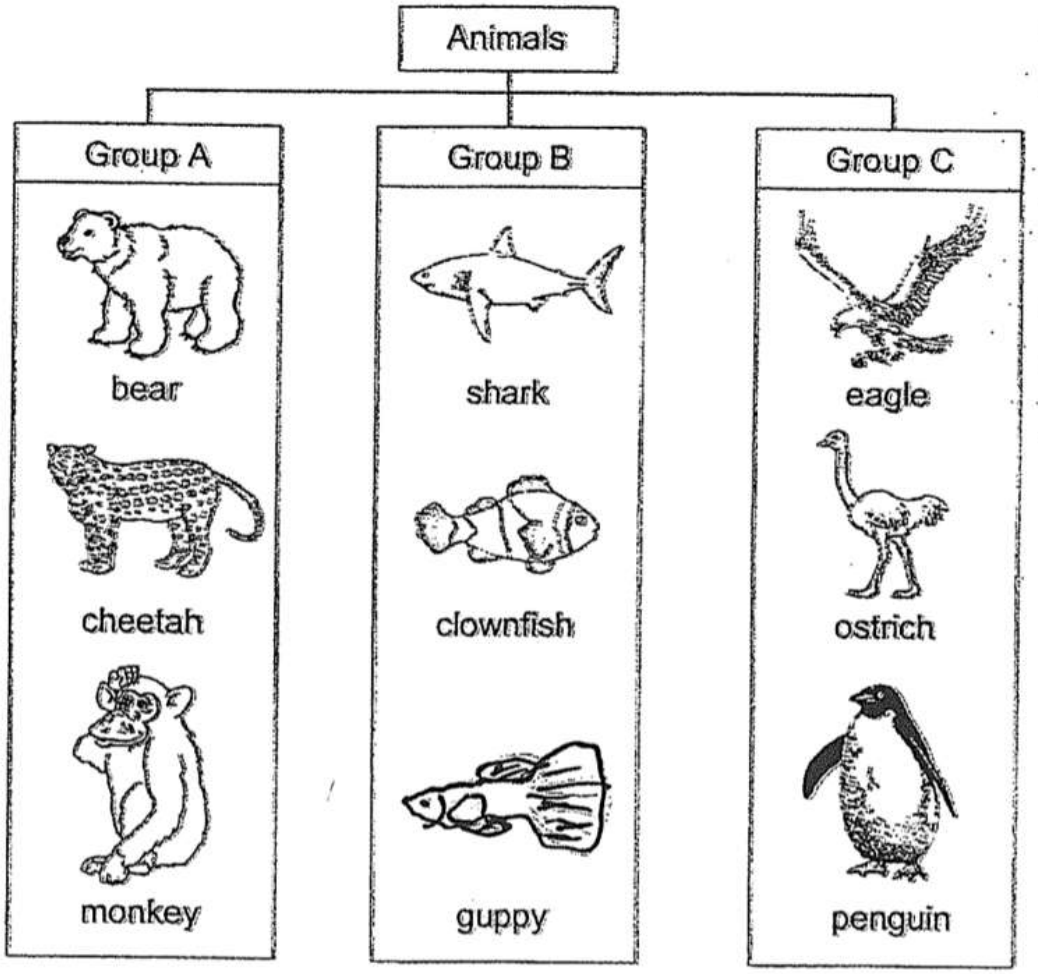
5 Study the chart below.



Animal Z is a sea mammal. Which letter, A, B, C or D, best represents animal Z?

A) A
B) B
C) C
D) D

Study the chart below.



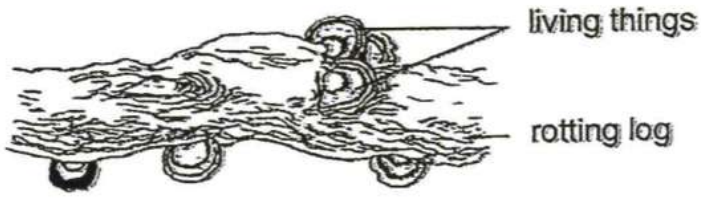
How are the above animals grouped?

- **A)** The way they move
- **B)** The place they live in
- **C)** The type of food they eat
- **D)** The type of outer covering they have

Question 7 of 44

Primary 3 Science (Term 4) 2 pts

Four pupils found some living things growing on a rotting log.



They made the following statements about the living things.

Name of pupil	Statements
Anton	They are plants.
Bala	They do not need sunlight.
Chee Ming	They are able to make their own food.
Dalimah	They reproduce by spores.

Who are correct?

- **A)** Bala and Dalimah only
- **B)** Anton and Dalimah only
- **C)** Bala and Chee Ming only
- **D)** Anton and Chee Ming only

Question 8 of 44

Primary 3 Science (Term 4) 2 pts

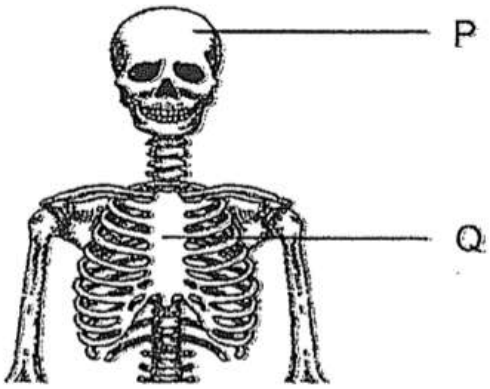
Which one of the following statements about bacteria is not correct?

- **A)** Bacteria are microorganisms.
- **B)** Bacteria do not need air or water to grow.
- **C)** Bacteria feed on living things, dead or alive.
- **D)** Bacteria can be useful and harmful to living things.

Question 9 of 44

Primary 3 Science (Term 4) 2 pts

The diagram below shows the human skeletal system.



Which one of the following statements is correct about P and Q?

- **A)** They allow us to stand upright.
- **B)** They protect the organs in our body.
- **C)** They work on their own to enable movement.
- **D)** They work together with the muscle to enable movement.

Question 10 of 44

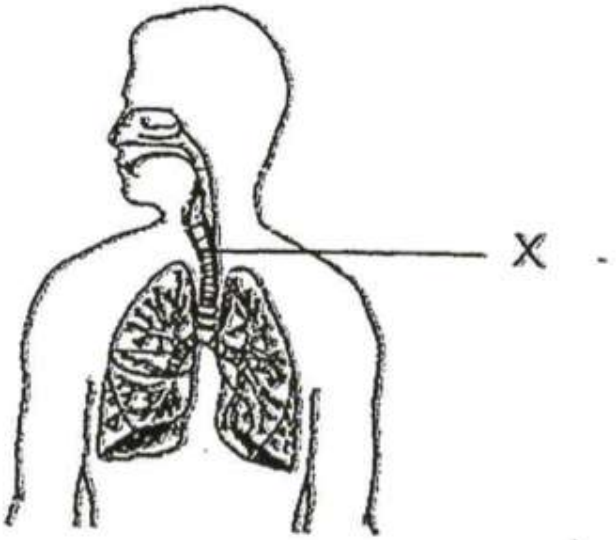
Primary 3 Science (Term 4) 2 pts

Danny went jogging one morning. He started breathing faster and his heart beat faster.

Which systems in his body were responsible for the changes that he experienced?

- **A)** Skeletal and muscular systems
- **B)** Circulatory and skeletal systems
- **C)** Respiratory and muscular systems
- **D)** Circulatory and respiratory systems

The diagram below shows a human body system.



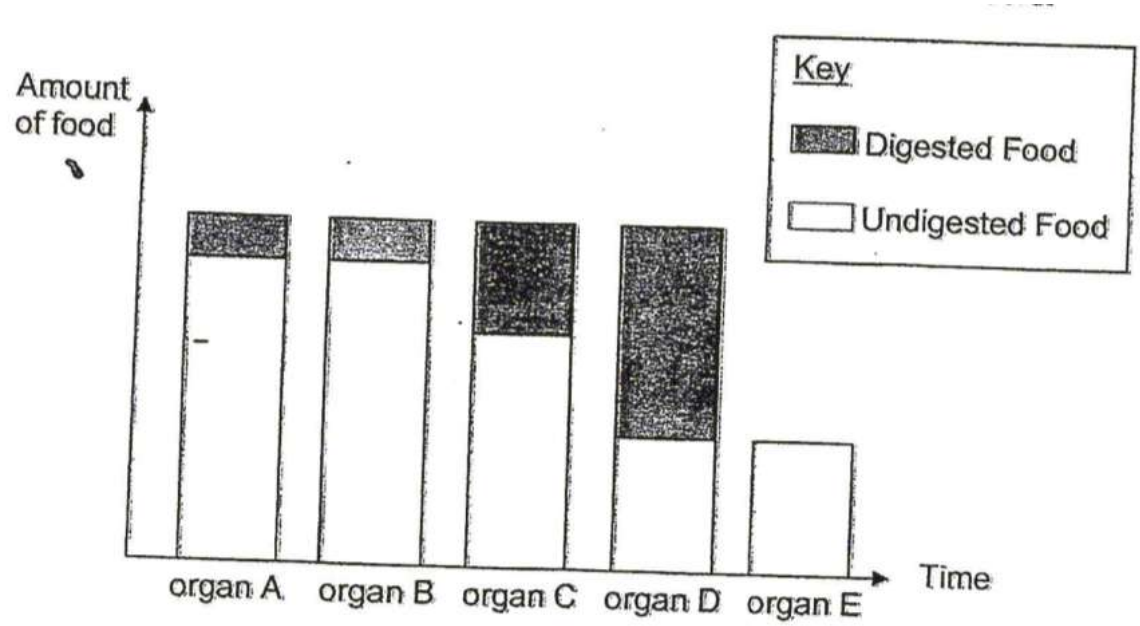
What is the part labelled X?

- **A)** lung
- **B)** gullet
- **C)** windpipe
- **D)** small intestine

Question 12 of 44

Primary 3 Science (Term 4) 2 pts

The bar graph below shows the amount of digested and undigested food in five organs, A, B, C, D and E, of the digestive system over four hours.



Which one of the following is most likely represented by organ E?

- **A)** gullet
- **B)** mouth
- **C)** large intestine
- **D)** small intestine

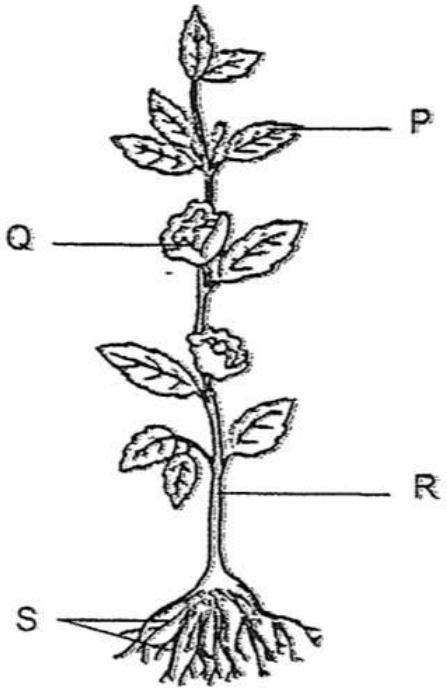
Question 13 of 44

Primary 3 Science (Term 4) 2 pts

Which one of the following helps to hold the plant upright?

- **A)** stem
- **B)** roots
- **C)** fruits
- **D)** leaves

Study the diagram below.



Which one of the following matches the parts correctly?

	P	Q	R	S
(1)	roots	stem	flower	leaf
(2)	flower	leaf	stem	roots
(3)	stem	flower	roots	leaf
(4)	leaf	flower	stem	roots

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

During a heavy rain with severe thunderstorm, which plant is most likely to be uprooted first?

(1)

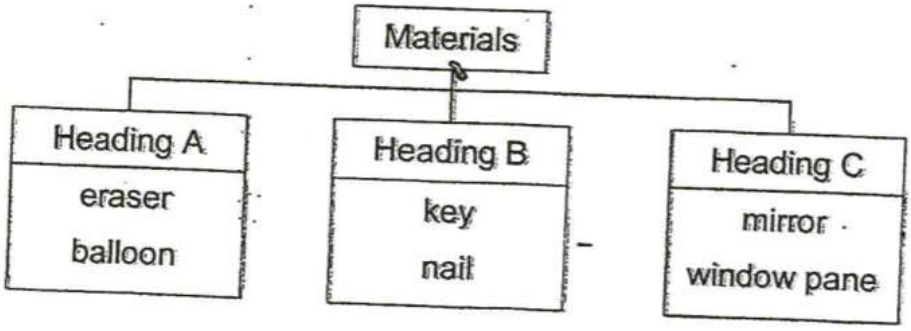
(2)

(3)

(4)

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

16 Study the chart below.



Which one of the following correctly shows what headings, A, B and C, can be?

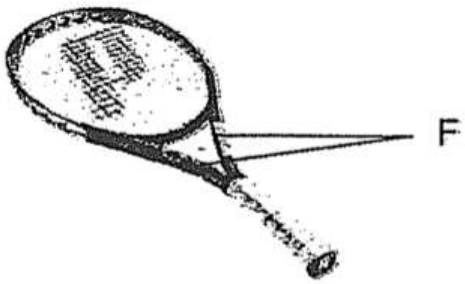
	A	B	C
(1)	rubber	ceramic	glass
(2)	plastic	metal	fabric
(3)	rubber	metal	glass
(4)	plastic	ceramic	fabric

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

Question 17 of 44

Primary 3 Science (Term 4) 2 pts

The diagram below shows a tennis racket.



Which material is most suitable for making part F of the tennis racket?

- **A)** glass
- **B)** metal
- **C)** rubber
- **D)** ceramic

Question 18 of 44

Primary 3 Science (Term 4) 2 pts

The table below shows the properties of four materials, P, Q, R and S. A tick (√) indicates the presence of the characteristic.

Material / Property	P	Q	R	S
Flexible	√		√	
Breaks easily			√	
Waterproof	√	√		√
Can see through				√

Which material is most suitable for making a raincoat?

- **A)** P
- **B)** Q
- **C)** R
- **D)** S

Question 19 of 44

Primary 3 Science (Term 4) 2 pts

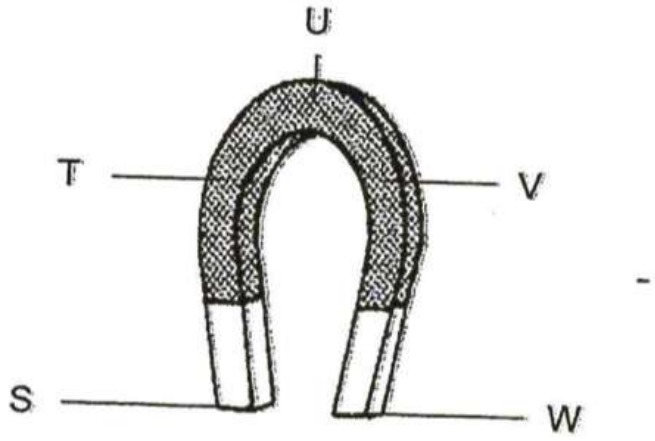
In which direction will a freely suspended magnet point to when it comes to rest?

- **A)** South-East
- **B)** North-West
- **C)** South-West
- **D)** North-South

Question 20 of 44

Primary 3 Science (Term 4) 2 pts

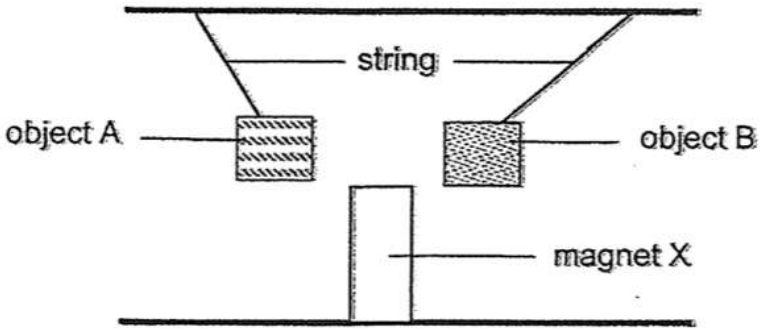
The diagram below shows a horseshoe magnet.



Which part(s) of the horseshoe magnet can attract the most number of paper clips?

- **A)** U only
- **B)** T and V only
- **C)** S and W only
- **D)** T, U and V only

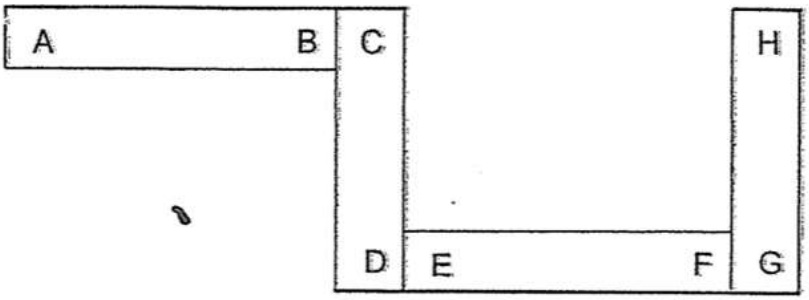
Max set up an experiment and found that objects A and B were pulled towards magnet X as shown in the diagram below.



Which one of the following statements about objects A and B is correct?

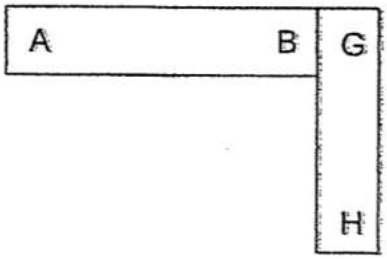
- **A)** Object A is a magnet but object B is non-magnetic
- **B)** Object B is a magnet but object A is non-magnetic
- **C)** Both objects A and B are made of magnetic materials
- **D)** Object A is made of aluminium and object B is made of copper

Four bar magnets are arranged as shown below.

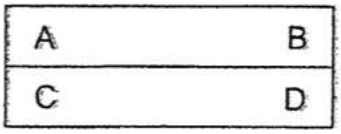


Which one of the following shows the correct arrangement when two of the bar magnets are put together?

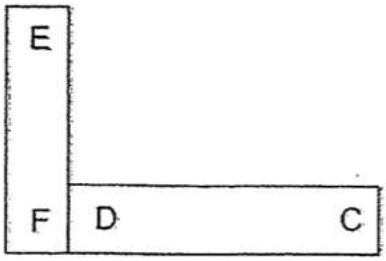
(1)



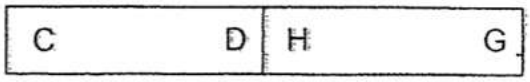
(2)



(3)

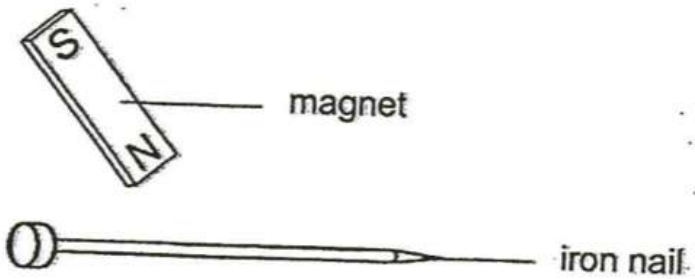


(4)



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

Peter wanted to magnetise an iron nail using the stroking method as shown below.



While stroking the iron nail, he should _____.

A stroke the nail with the same pole of the magnet

B stroke the nail with a magnet in different directions

C stroke the whole length of the nail at least 20 times

D stroke only part of the nail with a magnet in different directions

---

- **A)** B only
- **B)** A and C only
- **C)** B and D only
- **D)** A, C and D only

Four identical iron nails, W, X, Y and Z, were made into magnets using the stroking method. The table below shows the number of paper clips attracted.

Nails	W	X	Y	Z
Number of paper clips attracted	2	5	4	7

Which nail was stroked the most number of times?

- **A)** W
- **B)** X
- **C)** Y
- **D)** Z

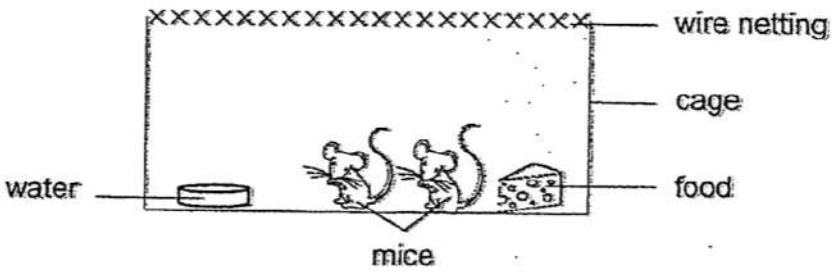
Question 25 of 44

Primary 3 Science (Term 4) 0 pts

SECTION B
Type your answers clearly in the spaces provided.

This section is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Ken observed a pair of mice in a cage for a month.



(a) Match Ken's observations to the characteristics of living things. [2]

Observations	Characteristics of living things
The mice fed on the food and water.	• Living things can grow.
The mice were bigger in size after two weeks.	• Living things need food and water.
The mice ran around the cage when Ken moved the cage.	• Living things can reproduce.
There were more mice in the cage after one month.	• Living things respond to changes around them.

Question 26 of 44

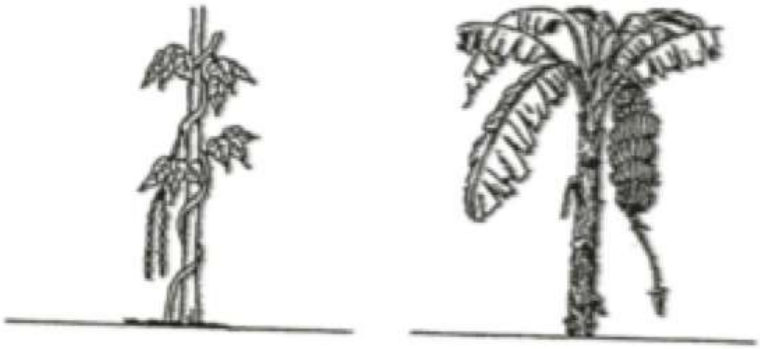
Primary 3 Science (Term 4) 0 pts

Ken then replaced the wire netting with a piece of cardboard.

(b) What would Ken observe after a week?

(c) Explain your answer in (b)

Study the two plants below.



plant X plant Y

(a) Based on the diagram above, state one similarity and one difference between plant X and plant Y.
(Do not compare size, shape and colour.)

(i) Similarity: [1]

_____

_____

(ii) Difference: [1]

_____

_____

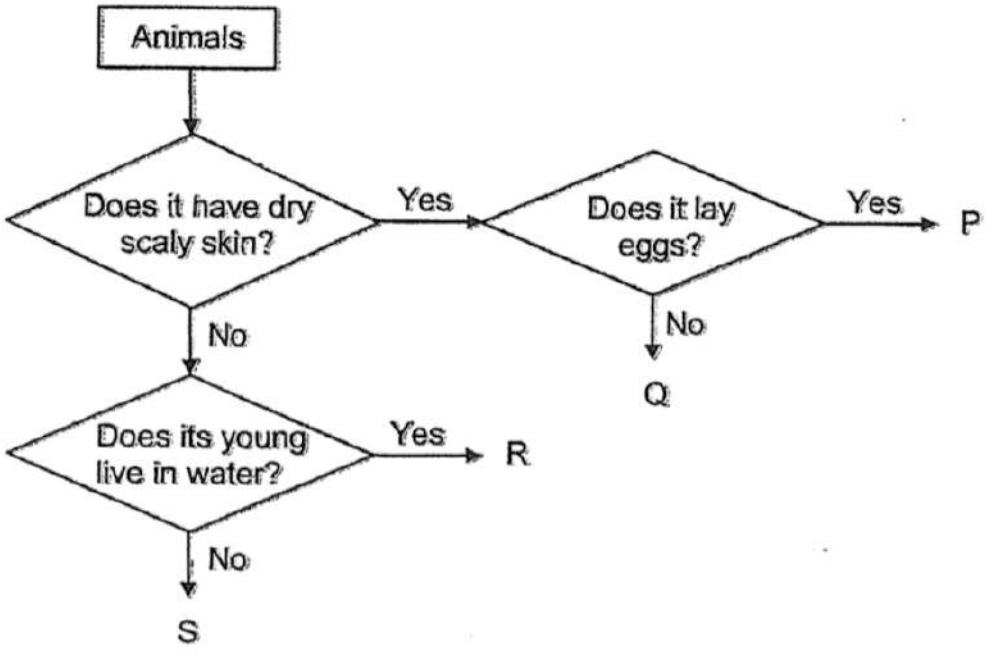
(b) Based on the diagram above, are plant X and plant Y flowering plants? Give a reason for your answer. [1]

_____

Question 28 of 44

Primary 3 Science (Term 4) 0 pts

Study the chart below.



(a) Based on the chart above, state two characteristics of animal Q. [1]

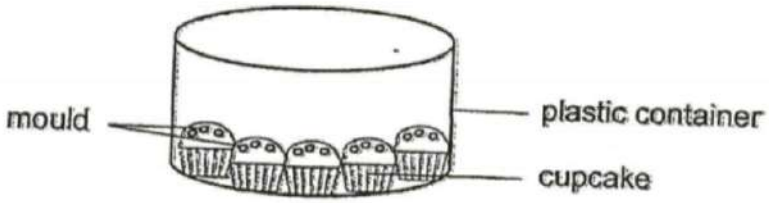
(b) Based on the chart above, state one similarity between animals R and S. [1]

Question 29 of 44

Primary 3 Science (Term 4) 1 pt

(c) Based on the chart above, which animal, P, Q, R or S, is most likely to be a snake? [1]

Mei Ling wanted to find out the temperature at which mould grows best on cupcakes. She placed five identical cupcakes each into four similar plastic containers, W, X, Y and Z. Each container was placed in a different room at a different temperature for one week.



She recorded her results in the table as shown below.

Plastic container	Temperature of the room the container was placed in (°C)	Number of cupcakes with mould growing on them
W	10	1
X	15	3
Y	25	4
Z	30	5

(a) Based on the results above, what change do you notice about the number of cupcakes with mould growing on them as the temperature of the room increased? [1]

_____

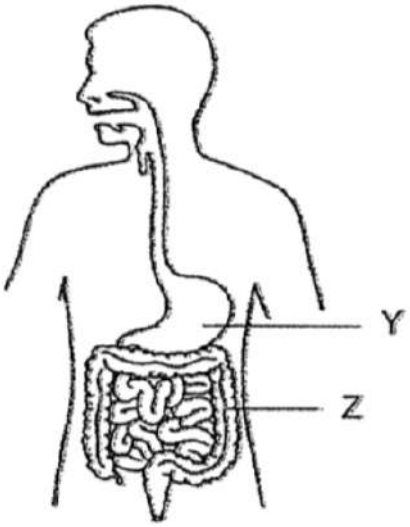
_____

(b) Based on the experiment above, name the condition that affected the growth of the mould. [1]

_____

Question 31 of 44 Primary 3 Science (Term 4) 0.5 pts

The diagram below shows the human digestive system.



(a) Name the labelled parts of the human digestive system. [1]

Part Y: _____

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Part Z: _____

Question 33 of 44

Primary 3 Science (Term 4) 0 pts

(b) What happens at part Z? [1]

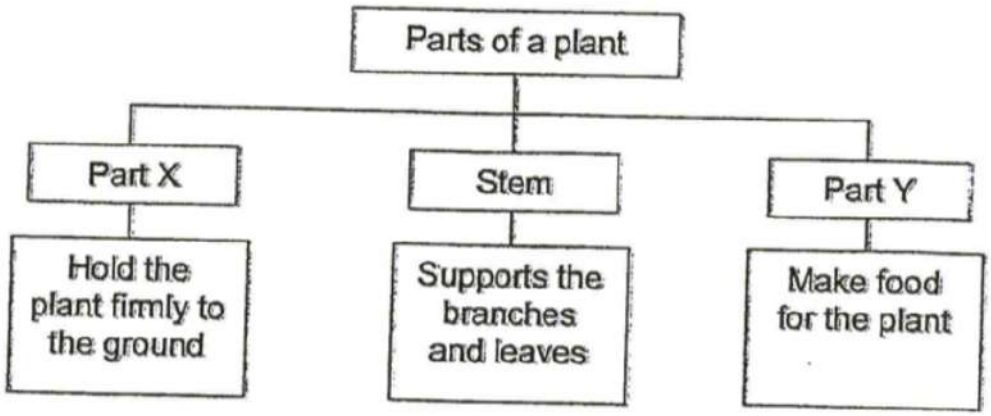
_____

_____

Question 34 of 44

Primary 3 Science (Term 4) 1 pt

Study the chart below. It shows the parts of a plant and their functions.



(a) Name parts X and Y. [2]

Part X: _____

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Part Y: _____

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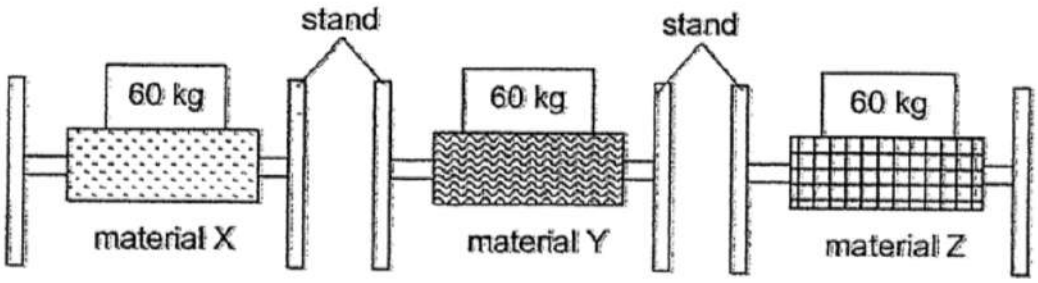
(b) State another function of part X. [1]

_____

_____

Raja put a 60 kg weight onto three materials, X, Y and Z, as shown below. The materials were of the same thickness.



Raja then recorded his observations in a table as shown below.

Material	Observations
X	It bent.
Y	It broke.
Z	It remained the same.

(a) Put a tick (√) in the box(es) below to indicate the changed variable based on his experiment above. [1]

Variables	Changed
type of material	
size of material	
thickness of material	

- **A)** type of material
- **B)** size of material
- **C)** thickness of material

Question 38 of 44

Primary 3 Science (Term 4) 3 pts

Match the options below:

(b) Arrange the materials, X, Y and Z, from the strongest to the weakest. [1]

_____ , _____ , _____

strongest weakest

1. [ ]	strongest	A.	Material Y
2. [ ]	medium	B.	Material Z
3. [ ]	weakest	C.	Material X

Question 39 of 44

Primary 3 Science (Term 4) 0 pts

(c) Which material should Raja choose to make a chair?
Explain your answer. [2]

_____

Ahmad arranged three ring magnets through a plastic rod as shown in diagram 1 below.

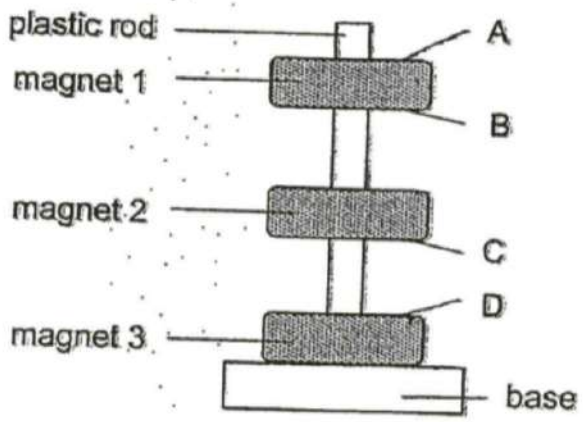


diagram 1

(a) Identify the poles of the ring magnets indicated by A, B, C and D. [2]

A: _____ C: _____

B: _____ D: _____

(b) State a property of the magnets shown in the diagram above. [1]

_____

Ahmad made a change to one of the magnets such that the three ring magnets come together as shown in diagram 2.

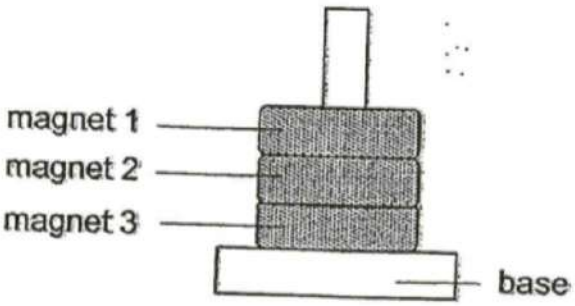


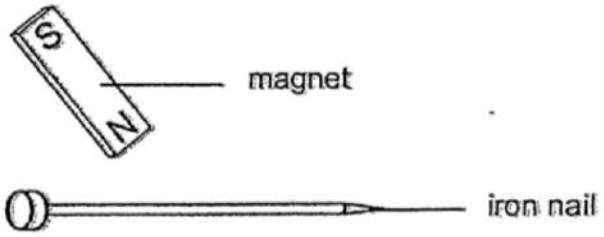
diagram 2

(c) What was the change that Ahmad had made? [1]

Question 41 of 44

Primary 3 Science (Term 4) 1 pt

Ben wanted to magnetise an iron nail using the stroking method as shown in the diagram below.



The table below shows his results.

Number of times the iron nail is stroked	Number of paper clips attracted
10	1
20	2
30	3

(a) Put a tick (√) in the box(es) below to indicate the minimum number of times the iron nail is stroked to attract 4 paper clips. [1]

Number of times the iron nail is stroked	Tick (√)
25	
30	
40	

- **A)** 25
- **B)** 30
- **C)** 40

Question 42 of 44

Primary 3 Science (Term 4) 1 pt

Ben changed the iron nail to a plastic ruler.

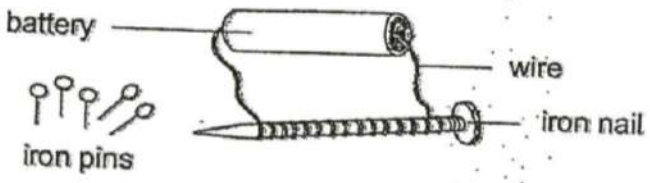
(b) How many paper clips could the plastic ruler attract after he stroked it 40 times with the magnet? [1]

_____

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

_____

Mabel set up the following experiment as shown below.

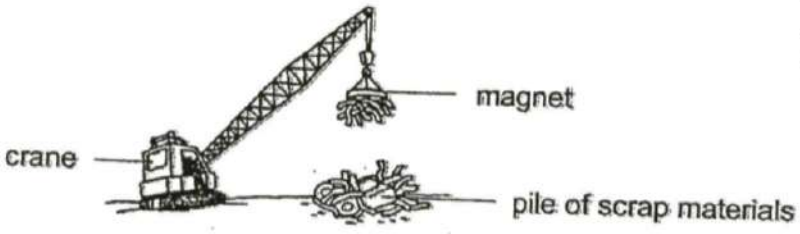


(a) What did Mabel observe when she placed some iron pins near the iron nail? [1]

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

(c) Suggest one way for Mabel to attract more iron pins to the iron nail. [1]

The crane below is found at a metal scrapyard. A magnet is attached to one end of the crane.



(d) Explain how the magnet helps to separate the magnetic materials from the pile of scrap materials. [1]