

Test: Primary 3 - Term 4 (SA2) Science (MGS)

Points: 60 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 45

Primary 3 Science (Term 4) 2 pts

For each question from 1 to 28 four options are given. One of them is the correct answer.

Study the pictures below.



Which characteristic of living things does it show?

-
- A) Living things die.
 - B) Living things grow.
 - C) Living things respond to changes respond them.
 - D) Living things need air, water and food to stay alive.

Question 2 of 45

Primary 3 Science (Term 4) 2 pts

The table below shows the number of fishes in a fish tank over a period of four days.

Day	Number of fish
1	5
2	5
3	4
4	2

What are the likely reasons for the decrease in the number of fishes at the end of four days?

- A The fishes are not fed daily.
- B There is no air pump in the tank.
- C The fishes are swimming too slowly.
- D A disease has spread among the fishes.

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

Question 3 of 45

Primary 3 Science (Term 4) 2 pts

The picture below shows an apple.



Which one of the following statements correctly describes the apple?

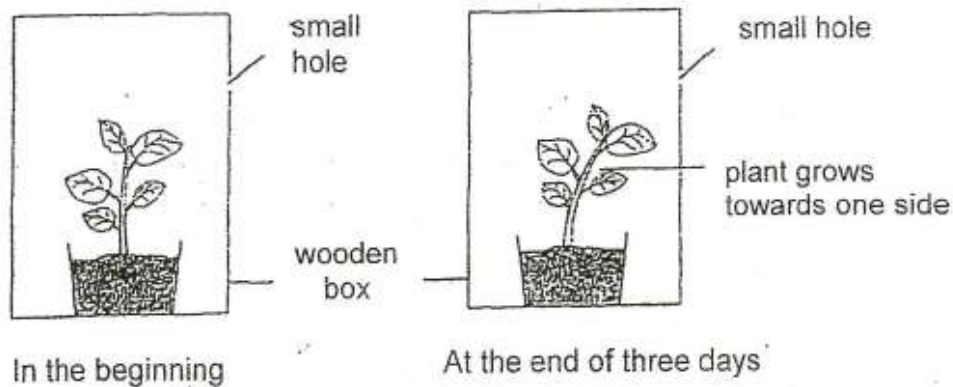
	It is a fruit	It grows from a flowering plant	It need sunlight to make food	It gets water from the roots
(1)	Yes	No	Yes	No
(2)	No	No	Yes	Yes
(3)	Yes	Yes	No	Yes
(4)	No	Yes	No	No

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

Question 4 of 45

Primary 3 Science (Term 4) 2 pts

A potted plant was put inside a wooden box with a small hole. The wooden box was then placed in a garden.



Which one of the following statements explains the observation at the end of three days?

- A) It tried to get more water.
- B) It tried to take in more air.
- C) It was reaching out for fertilizer.
- D) It was reaching out for more sunlight.

Question 5 of 45

Primary 3 Science (Term 4) 2 pts

Which of the following characteristic(s) is/are common to most fish, reptiles and birds?

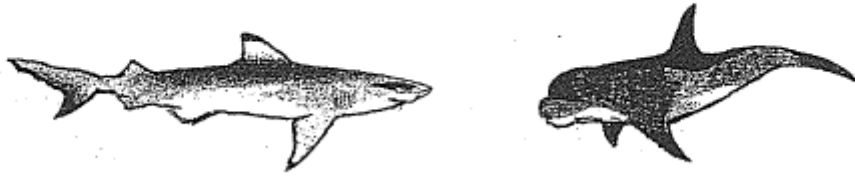
- A has fins
- B has gills
- C lays eggs
- D body has scales

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

Question 6 of 45

Primary 3 Science (Term 4) 2 pts

Four pupils made a few statements about the differences between a shark and a dolphin.



Quentin: A shark swims but a dolphin does not.

Chandra: A dolphin has gills but a shark has lungs.

Siew Lin: A shark has scales but a dolphin has hair on its body.

Siti Maya: A dolphin does not suckle its young but a shark does.

Whose statements are incorrect?

-
- A) Quentin and Siew Lin only
 - B) Chandra and Siti Maya only
 - C) Quentin, Chandra and Siti Maya only
 - D) Chandra, Siew Lin and Siti Maya only

Question 7 of 45

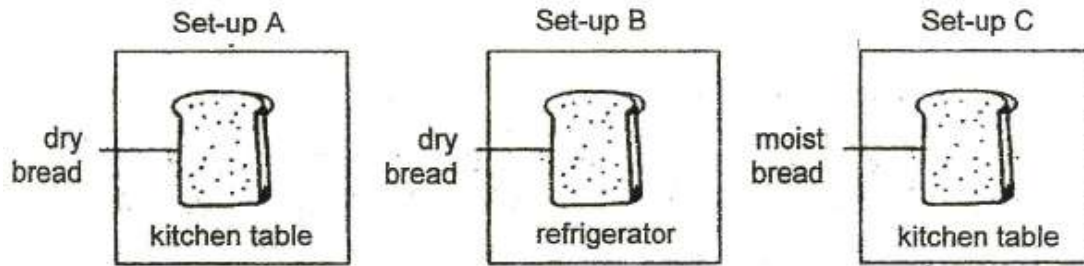
Primary 3 Science (Term 4) 2 pts

Which of the following are correct statements about bacteria?

- A All bacteria are harmful to man.
- B Bacteria are micro-organisms.
- C Bacteria reproduce from spores.
- D Bacteria exist in different shapes.

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

Gopal conducted an investigation by placing three similar pieces of bread in different set-ups, A, B and C as shown below.



After a few weeks, mould was found on the bread in the three set-ups. Which one of the following correctly shows the amount of mould found on the bread in each set-up?

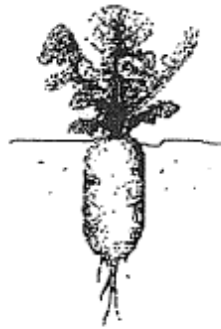
	least <----- amount of mould -----> most		
(1)	A	B	C
(2)	B	A	C
(3)	B	C	A
(4)	C	B	A

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

Study Plant A and Plant B as shown below. [The pictures are not drawn to scale]



Plant A



Plant B

Which one of the following statements is correct?

- A) Plant B bears fruit but Plant A does not bear fruit.
- B) The roots of Plant B can store food but not Plant A.
- C) The leaves of Plant A can make food but not Plant B.
- D) Both plants have stems to hold the plant firmly to the soil.

Which one of the following is the correct path of water in the plant?

- (1)

roots

 →

stem

 →

leaves

- (2)

roots

 →

leaves

 →

stem

- (3)

leaves

 →

stem

 →

roots

- (4)

stem

 →

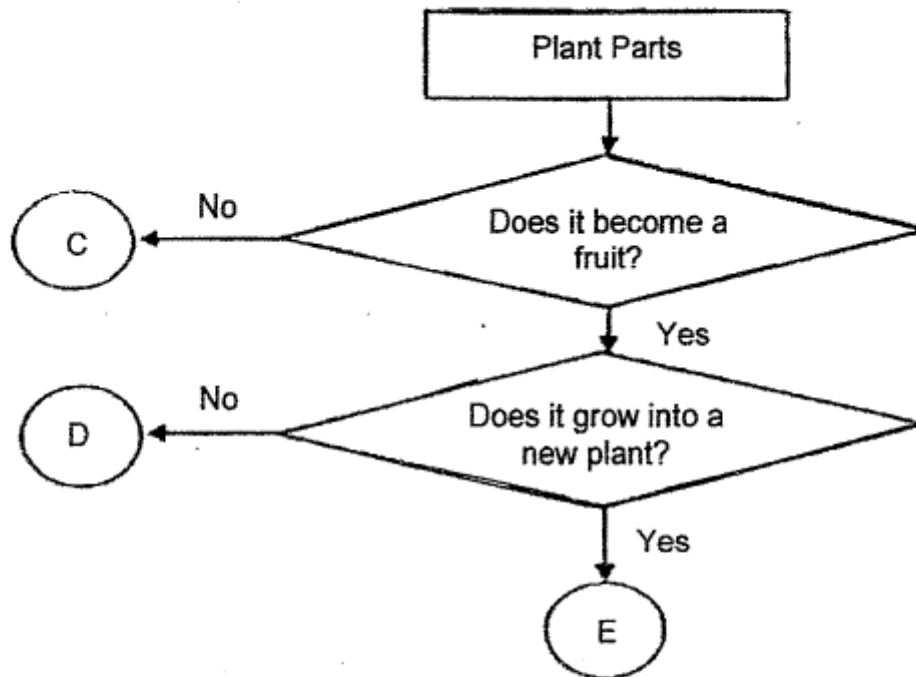
leaves

 →

roots

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

In the flow chart below, C, D and E represent three plant parts.



Which of the following best represent parts C, D and E?

	C	D	E
(1)	roots	leaf	fruit
(2)	stem	flower	seed
(3)	leaf	seed	flower
(4)	flower	stem	leaf

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

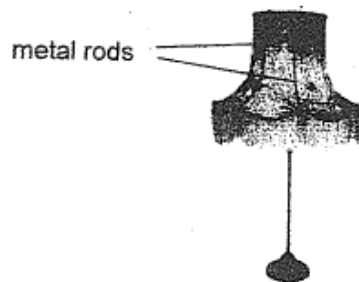
The diagrams below show the different organ systems, Q, R, S and T.



Which of the diagrams show the circulatory system and respiratory system?

- A) Q and R
- B) R and S
- C) S and T
- D) Q and T

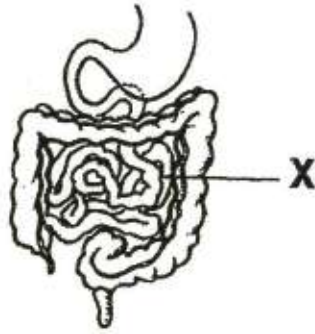
The picture below shows a lampshade on a stand. The lamp shade has thin metal rods to support it and give the lampshade its shape.



Which one of the following systems in our body provides similar function as the metal rods used in the lampshade?

- A) Skeletal system
- B) Muscular system
- C) Digestive system
- D) Respiratory System

Study the picture below.



Which of the following correctly identifies organ X and its function?

	X	Function
(1)	small intestine	It gets rid of excess water.
(2)	small intestine	It absorbs digested food into the bloodstream.
(3)	large intestine	It stores undigested food.
(4)	large intestine	It digests the food completely.

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

Mr and Mrs Samy wanted to build a house in their village. Their friends told them that they should use bricks for their house.



Why is brick a good material for building the house?

- A Brick is strong.
- B Brick is not flexible.
- C Brick is not waterproof.
- D Brick is made from clay.

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

The table below shows a few items, the materials used for making them and the reasons for choosing these materials. Which reason is incorrect in explaining why the material was used to make the item?

	Item	Material	Reason for choice of material
(1)	shoes	fabric	It is flexible.
(2)	plate	ceramic	It breaks easily.
(3)	spoon	metal	It does not bend easily.
(4)	raincoat	plastic	It is waterproof.

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

The table below shows the properties of materials, A, B and C. A tick (✓) shows that the material has the property.

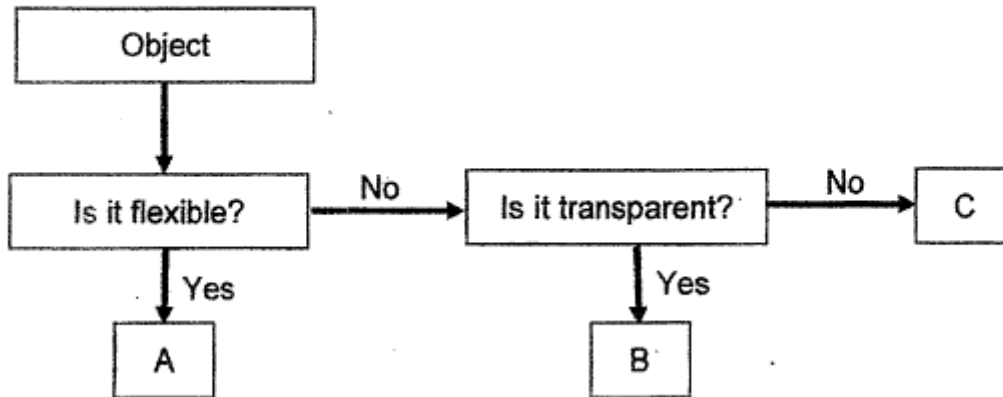
Properties	Materials		
	A	B	C
It bends easily.		✓	✓
It is waterproof.	✓	✓	
It allows most light to pass through.	✓		

Which of the following best represent materials A, B and C?

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

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

Study the flow chart below.

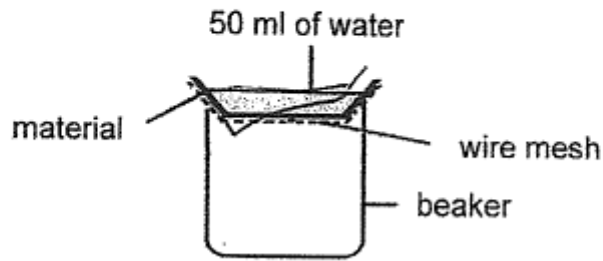


Which of the following correctly shows what objects, A, B and C could be?

	A	B	C
(1)	coin	nail	socks
(2)	socks	spectacle lens	nail
(3)	nail	towel	fish tank
(4)	towel	fish tank	spectacle lens

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

Alice had four different pieces of materials, A,B,C and D of similar size and thickness. She set up her experiment using the apparatus as shown in the diagram below and poured 50 ml of water onto each of the material.



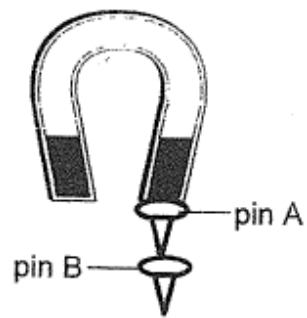
After five minutes, Alice recorded her findings in the table below.

Material	Amount of water in the beaker (ml)
A	0
B	5
C	15
D	40

Which material is most suitable to make a helmet?

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

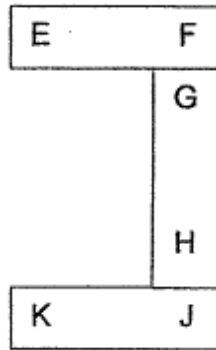
A horseshoe-shaped magnet was held over some pins and the diagram below shows the interaction of pin A and pin B.



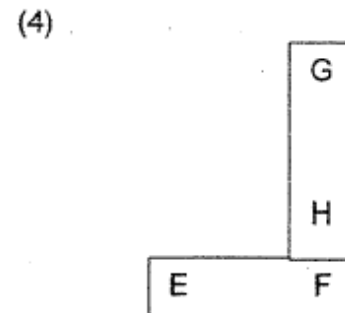
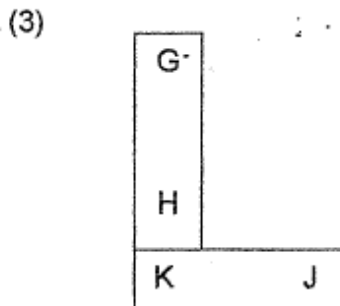
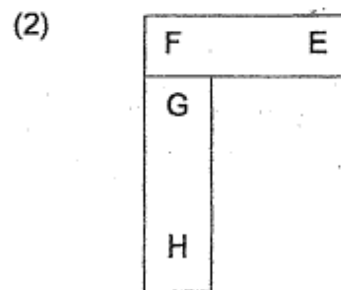
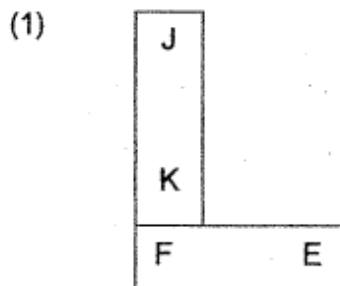
Why is pin B attracted to pin A as shown above?

-
- A) Pin A is made of aluminium.
 - B) Pin A cannot be magnetized.
 - C) Pin A is a temporary magnet.
 - D) Pin A is a non-magnetic material.

Three bar magnets with their poles marked A to F can be arranged as shown below.



Two of the bar magnets were taken to form a new arrangement. Which one of the following diagrams shows the correct arrangement for two of the magnets?

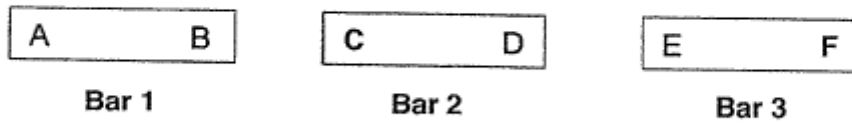


- A) 1
- B) 2
- C) 3
- D) 4

Question 22 of 45

Primary 3 Science (Term 4) 2 pts

There are three iron bars, Bar 1, Bar 2 and Bar 3. The ends of the iron bars are labelled as shown below.



When the ends of the iron bars are brought close to each other, they interacted as recorded in the table below.

Ends of Iron Bar	Observations
A and C	Attract
B and E	Attract
B and F	Attract
C and F	Repel

Which is / are definitely magnet (s)?

-
- A) Bar 1 only
 B) Bars 1 and 2 only
 C) Bars 2 and 3 only
 D) Bars 1, 2 and 3

Question 23 of 45

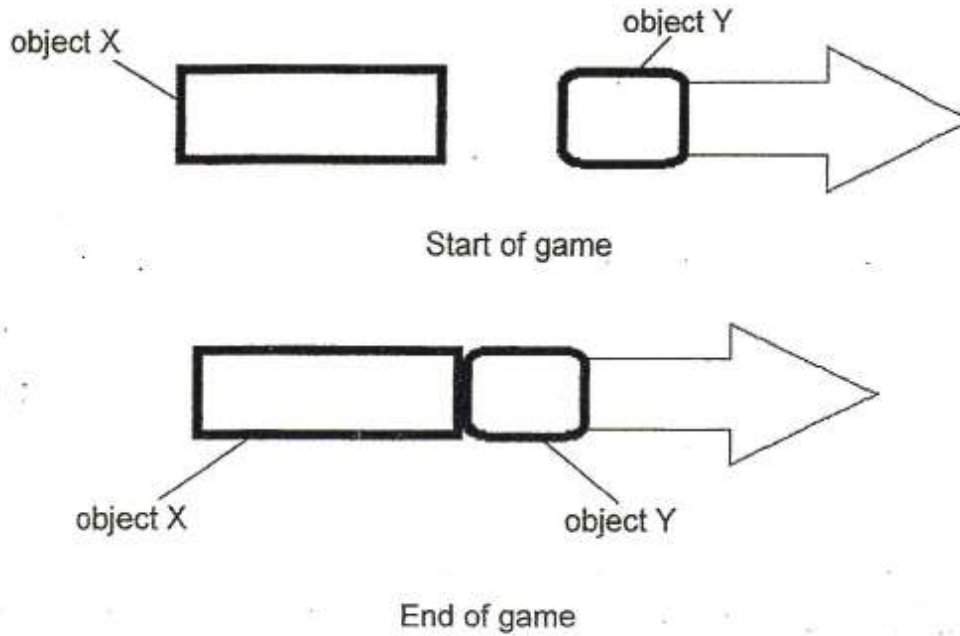
Primary 3 Science (Term 4) 2 pts

Magnets are very useful in our daily life. Which of the following objects make use of magnets to work?

- A Torch
B Compass
C Fishing rod
D Refrigerator

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

Ben and Jill played a game as shown in the diagram below. The aim of the game is to make use of object X to pick up object Y, which is attached to a paper arrow.

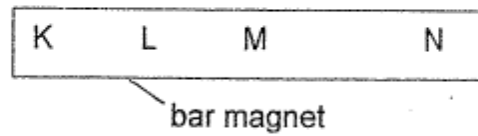


Which of the following could represent objects X and Y?

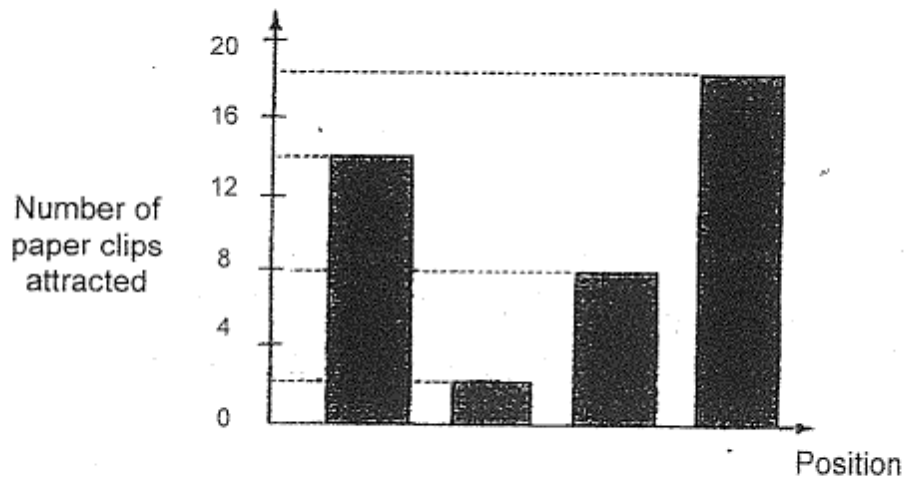
	Object X	Object Y
A	magnet	aluminium block
B	steel block	magnet
C	magnet	iron block

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

Johari set up an experiment to test the strength of different parts of a bar magnet by putting some steel paper clips at positions K, L, M and N of the magnet respectively.



He then recorded the number of steel paper clips attracted to each position of the magnet in the graph below.

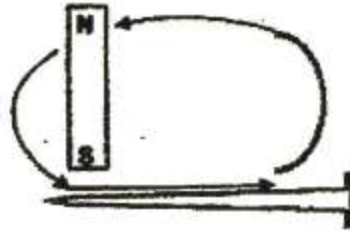


Which one of the following shows the correct number of paper clips attracted to positions K, L, M and N of the magnet?

	K	L	M	N
(1)	14	18	8	2
(2)	2	8	14	18
(3)	8	14	18	2
(4)	18	8	2	14

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

A steel nail is made into a magnet using the stroking method. The south pole of the magnet is used to stroke the tip of the nail in a regular motion each time as shown below.



Which one of the following diagrams shows the interaction between the magnetized nail and a magnet that is brought near it?

(1)



(2)



(3)

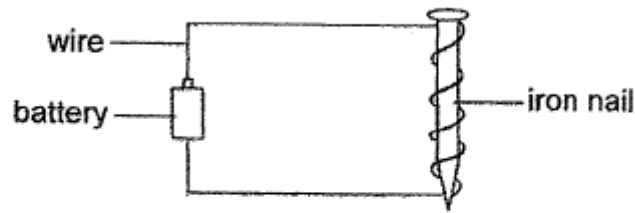


(4)



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

Sally set up an electromagnet as shown below.

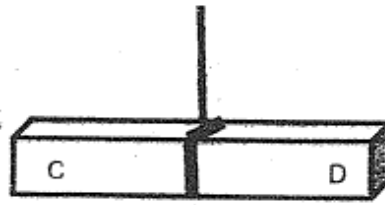


Which could Sally do to increase the strength of the electromagnet?

- A Use a longer nail.
- B Use a longer wire.
- C Use more batteries.
- D Coil more wire around the nail.

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

Khalil suspended a bar magnet CD which came to a rest and pointed in a certain direction as shown in the diagram below.



bar magnet CD

Khalil held the N-pole of another magnet near to pole D and he noticed that both poles repel each other.

What would be pole C and pole D?

	C	D
(1)	S-pole	S-pole
(2)	N-pole	N-pole
(3)	S-pole	N-pole
(4)	N-pole	S-pole

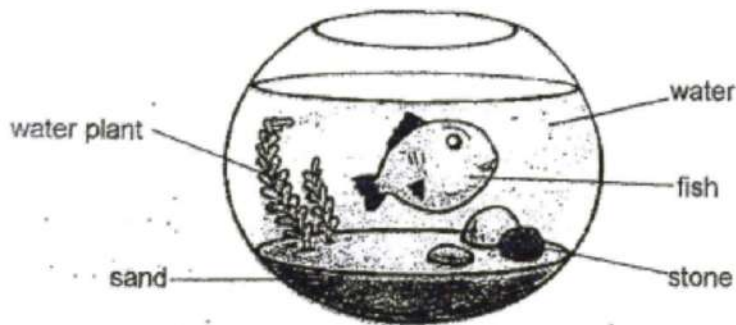
-
- A) 1
- B) 2
- C) 3
- D) 4

Write in the spaces provided.

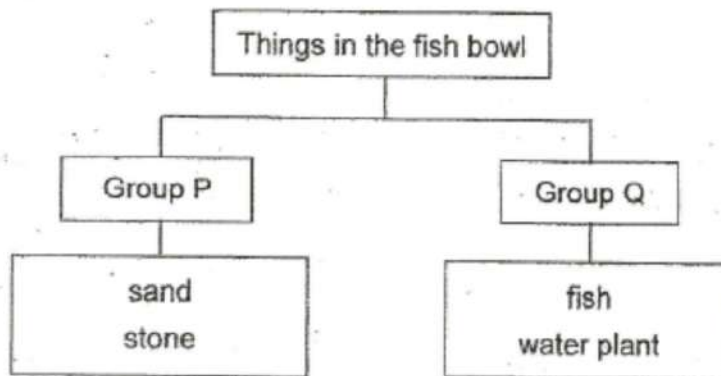
This section is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

The picture below shows a fish bowl filled with different things.



The things in the fish bowl are grouped according to the classification chart below.



(a) What are suitable headings for Group P and Group Q?

[1]

Group P: _____

Group Q: _____

(b) Which group, P or Q, should water be classified?
Give a reason for your answer.

[1]

(c) After a few days, the fish was observed to be swimming very near to the water surface. Explain why.

[1]

The pictures below show Plant X and Plant Y.



Plant X



Plant Y



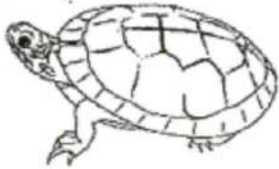

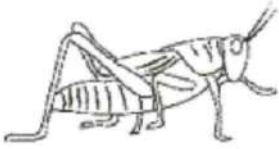
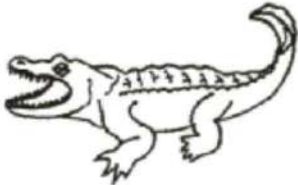
- (a) State a difference between Plant X and Plant Y in terms of their parts.
Do not compare size and shape.

[1]

- (b) How do both plant plant, X and Y obtain nutrition?

[1]

Some animals are classified according to their animal groups in the table as shown below. [The pictures are not drawn to scale.]

Group R	Group S	Group T
 frog	 ant	 turtle
 salamander	 grasshopper	 crocodile

(a) Identify Group R and Group T.

[1]

Group R: _____

Group T: _____

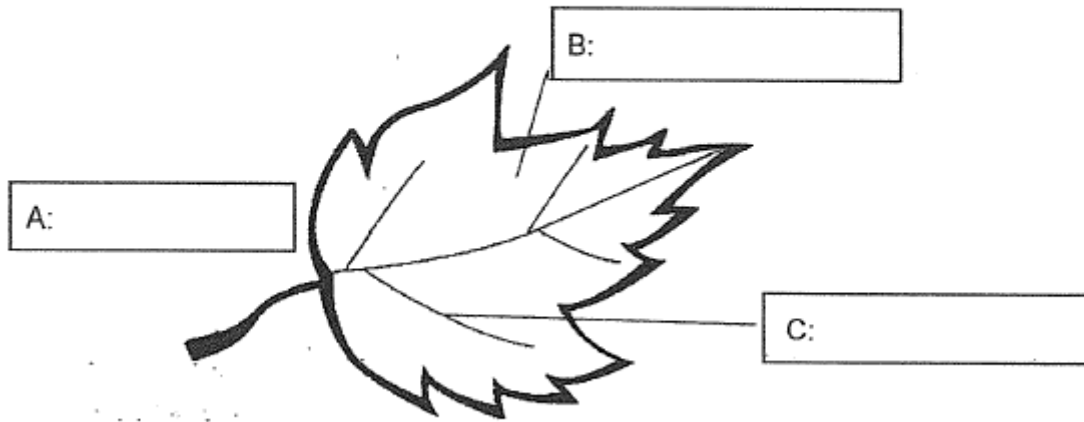
(b) How do all the animals above reproduce?

[1]

(c) What is the difference between the body covering of the animals in Group S and Group T?

[1]

2 The diagram below shows a leaf.



(a) Label the parts of the leaf, A, B and C in the boxes provided above. [1]

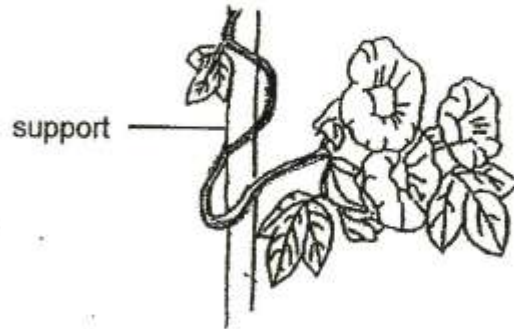
(b) Name two things that a plant needs to make food. [1]

(c) There are many tiny openings on the leaf. What is the function of these openings? [1]

The diagrams below show plants X and Y.



plant X



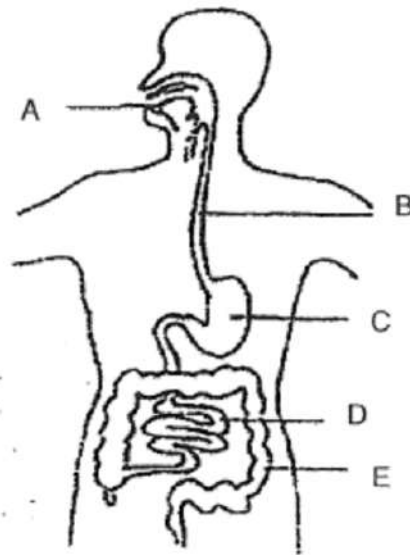
plant Y

(a) What is the difference between the stems of plant X and plant Y? [1]

(b) Why does plant Y climb upwards on a support? [1]

(c) Besides supporting the plant, what is another important function of the stem? [1]

The diagram below shows the human digestive system.



(a) Which organs, A, B, C, D, or E release digestive juices?

[1]

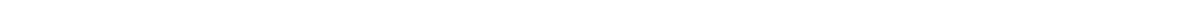
- A) A
- B) B
- C) C
- D) D
- E) E

(b) How does organ A help in digestion?

[1]

(c) What happens to the food when it enters organ C?

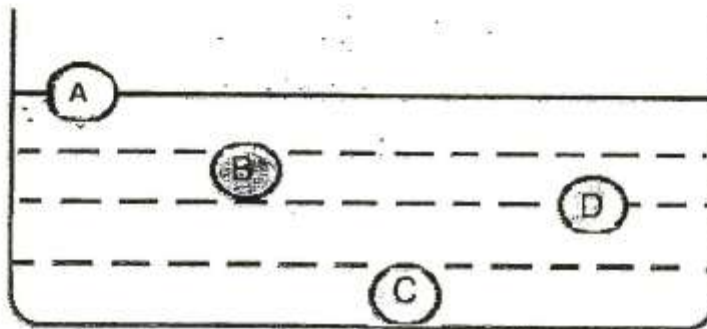
[1]



Jamal conducted an experiment on four different types of materials to be used for making an anchor for a toy boat. An anchor is an object that is dropped into the water to stop the boat from moving away. The diagram below shows an anchor.



He placed the materials into a container filled with water as shown below.

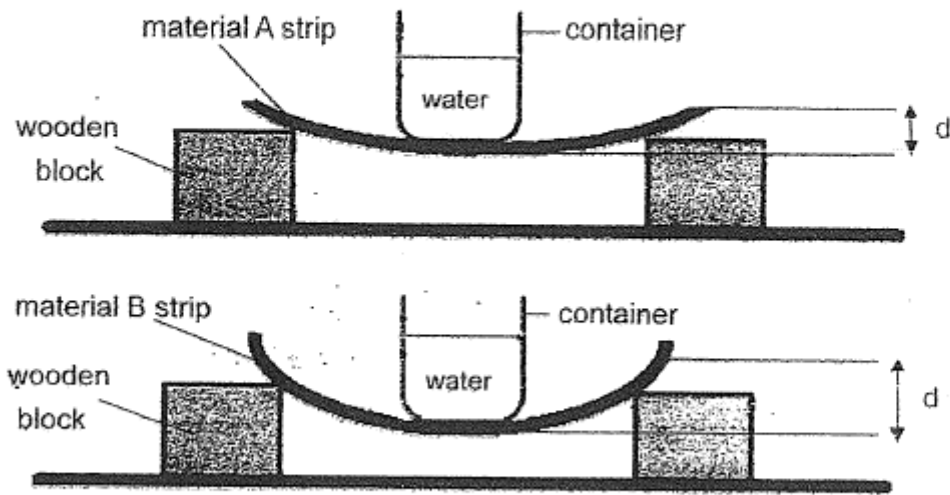


(a) State the property of the material that Jamal is testing in his experiment. [1]

(b) Which of the following materials, A, B, C or D is most suitable for making the anchor? Explain why. [1]

(c) Is glass a suitable material for making an anchor? Give a reason for your answer. [1]

Alison set up an experiment as shown below to **compare two different strips of materials, A and B**. The materials are of the **same thickness**. She placed a plastic container with 100 ml of water on the strip as shown in the diagram below.



She measured the distance, d , which is the distance between the highest point and the lowest point of the strip.

The table below shows the results.

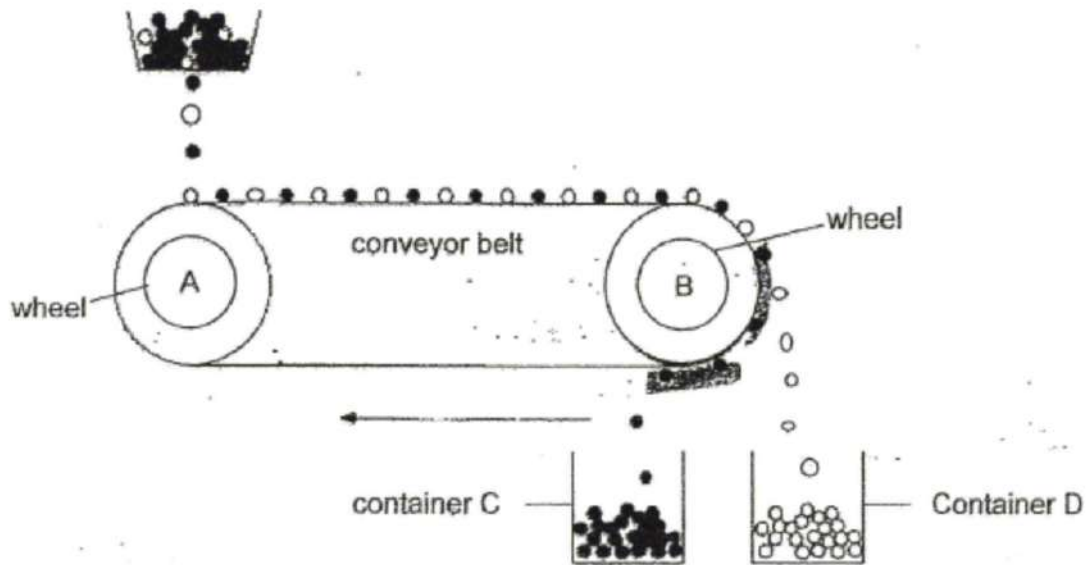
distance / cm	material A	material B
d	2	5

(a) Besides the same thickness, state another **variable that must be kept the same** for the strip in order for the experiment to be fair. [1]

(b) What could Alison conclude **about Strip A and B from this experiment?** [1]

(c) Explain your answer in (b) based on Alison's results. [1]

A factory uses a machine below to separate magnetic metals from non-magnetic metals. Both magnetic and non-magnetic metals are carried on the moving conveyor belt which is turned by wheel A and wheel B as shown in the diagram below



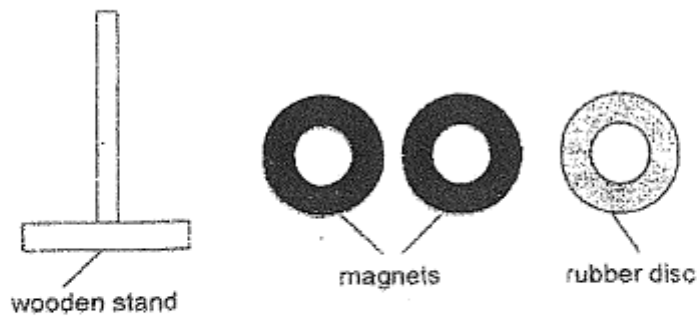
(a) In which wheel, A or B, is the magnet in the machine? [1]

- A) A
- B) B

(b) Containers C and D collect the metals. Describe how magnetic metals are separated and collected. [2]

(c) In which container, C or D, would copper be collected? Explain your answer. [1]

The diagram below shows three discs, each with a hole at its centre. Two of the discs are magnets and one is made of rubber. All three discs can be slotted through the wooden stand.



Sulin drew a picture of an arrangement of the above discs in her notebook as shown below.



(a) Explain why one magnet is floating above the other.

[1]

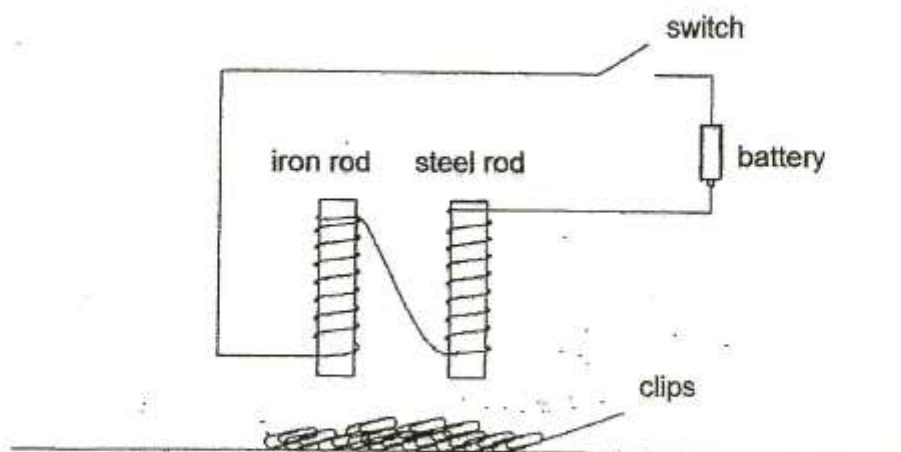
Sulin wants a new disc arrangement as shown below.



(b) Explain why the new arrangement is possible.

[1]

The diagram below shows an iron rod and a steel rod with wires coiled around each of them. The ends of the wires were connected to an electrical circuit. Both rods were placed a short distance above some clips.



(a) What happened to the iron rod and steel rod when the switch is closed? [1]

The number of clips attracted by the iron rod and the steel rod are shown in the table below.

	First Try	Second Try	Third Try
Iron rod	12	14	13
Steel rod	7	6	8

(b) Why was the experiment repeated three times? [1]

(c) Based on the results, which rod has stronger magnetic strength? Explain why. [1]

(d) What would happen to the results if the battery was removed from the set-up? Explain your answer. [2]

