Test: (2020) Primary 5 Science (Term 4) - MGS

Points: 58 points

Name: _____ **Score:** _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

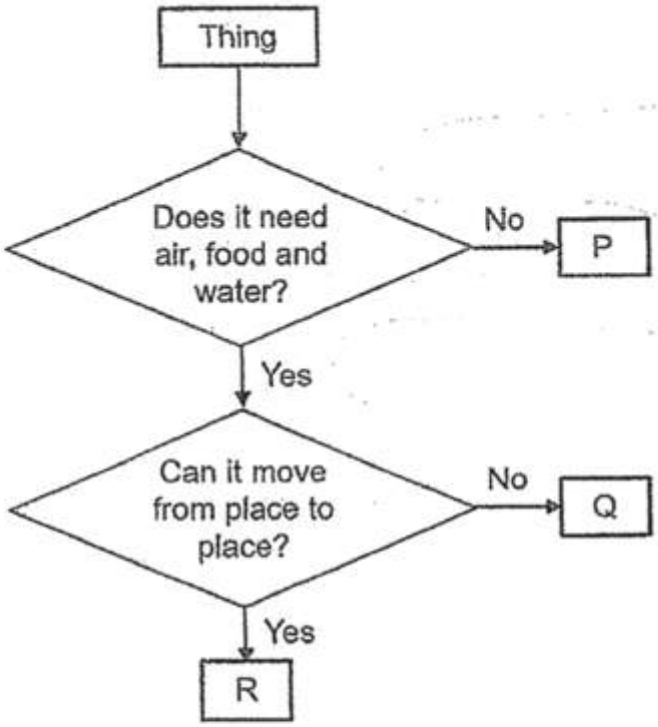
- ○ Only select one answer
- ☐ Can select multiple answers

Question 1 of 63

Primary 5 Science (Term 4) 2 pts

For each question, four options are given. One of them is the correct answer.

The flowchart below is used to identify three things, P, Q and R.



Which of the following are most likely to be P, Q and R?

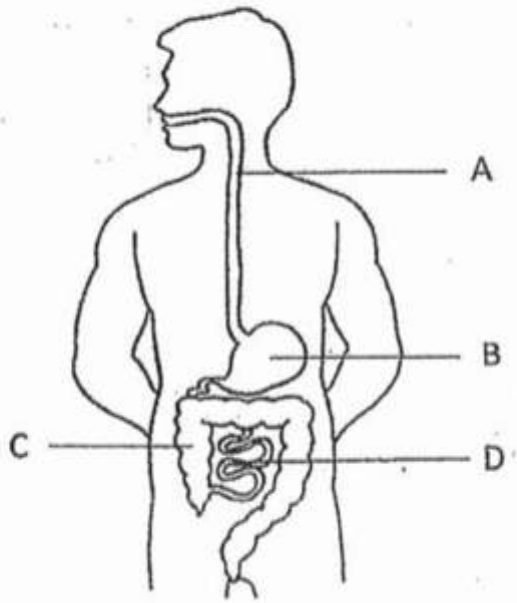
	P	Q	R
(1)	bacteria	horse	moss
(2)	squirrel	television	mushroom
(3)	fire	moss	cat
(4)	mushroom	bacteria	rabbit

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

Question 2 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows the human digestive system with some parts labelled A, B, C and D.



Which parts produce digestive juices?

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

Question 3 of 63

Primary 5 Science (Term 4) 2 pts

The young of insect X and insect Y are shown below.

Insect X Insect Y

Which of the following statements are correct about the young of insects X and Y?

A Both will moult.
B Both look like the adults.
C Both do not have wings.
D Both will go through the pupa stage.

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

Question 4 of 63

Primary 5 Science (Term 4) 2 pts

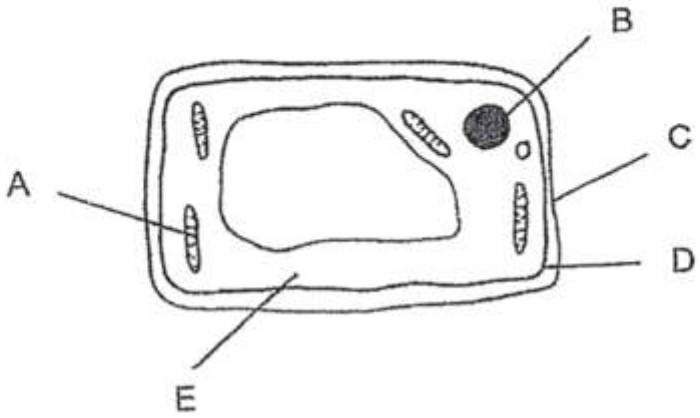
What is the similarity between sexual reproduction of flowering plants and humans?

A) They involve fertilization of the ovules
B) Pollination must take place before fertilisation
C) Reproductive cells are produced in the anthers
D) Fertilisation occurs at the female reproductive part

Question 5 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows parts of a cell.



Which of the following is correct?

	Can only be found in plant cells	Can be found in both plant and animal cells	Allow certain substances to pass through the cell
(1)	B	A and E	C
(2)	B, C	A, D and E	C
(3)	A, C	B, D and E	D
(4)	A, C	C, D and E	D

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

Question 6 of 63

Primary 5 Science (Term 4) 2 pts

Which part of the cell controls most of the activities?

A) cell wall
B) nucleus
C) cytoplasm
D) chloroplast

Question 7 of 63

Primary 5 Science (Term 4) 2 pts

Three types of plants P, Q and R were planted along the coast of an island as shown in Diagram 1. After a few years, more plants were found growing at different parts of the island as shown in Diagram 2.

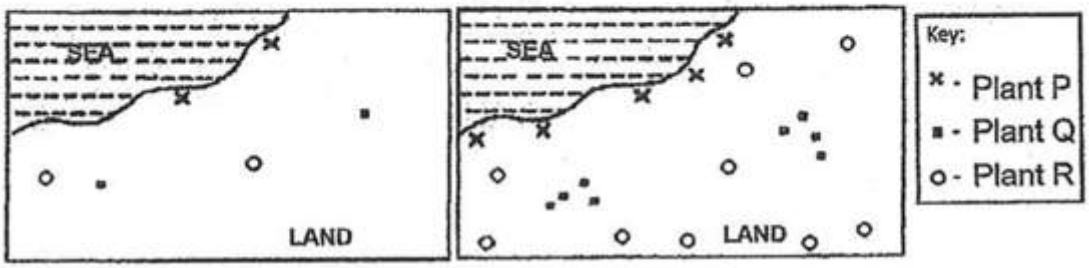


Diagram 1 Diagram 2

Which of the following best represent how the fruits and seeds of each type of plant are dispersed?

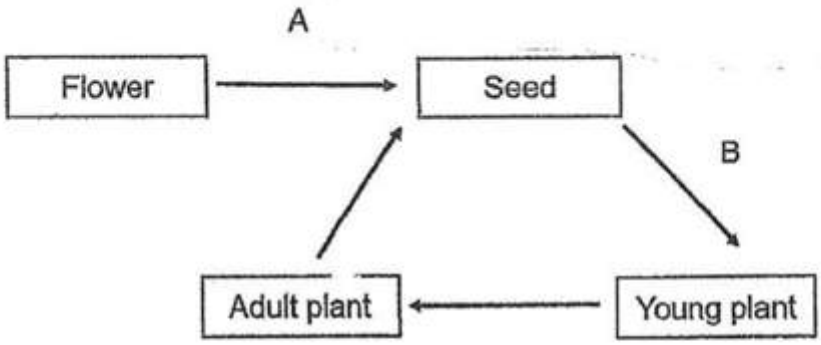
	Plant P	Plant Q	Plant R
(1)	By water	By splitting	By animals
(2)	By water	By animals	By splitting
(3)	By wind	By water	By animals
(4)	By splitting	By animals	By water

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

Question 8 of 63

Primary 5 Science (Term 4) 2 pts

A flowering plant undergoes processes A and B as shown below.



Which of the following correctly represent the processes A and B?

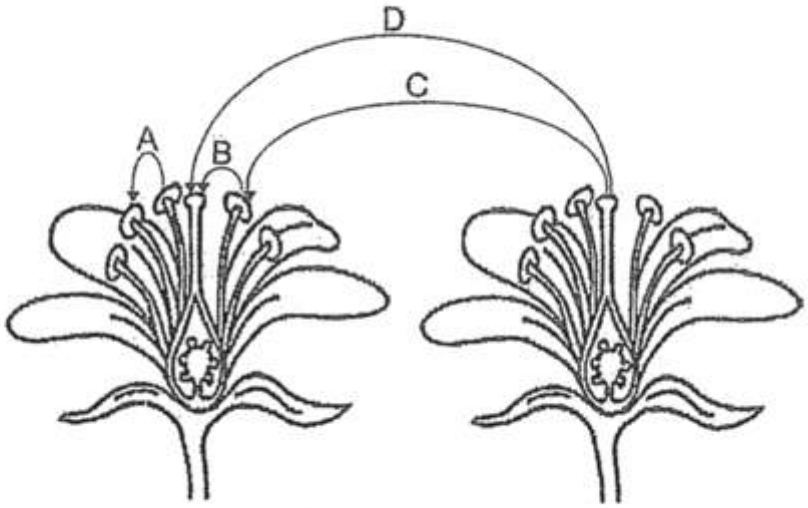
	A	B
(1)	Fertilisation	Germination
(2)	Dispersal	Fertilisation
(3)	Pollination	Fertilisation
(4)	Fertilisation	Pollination

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

Question 9 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows two flowers of the same species.



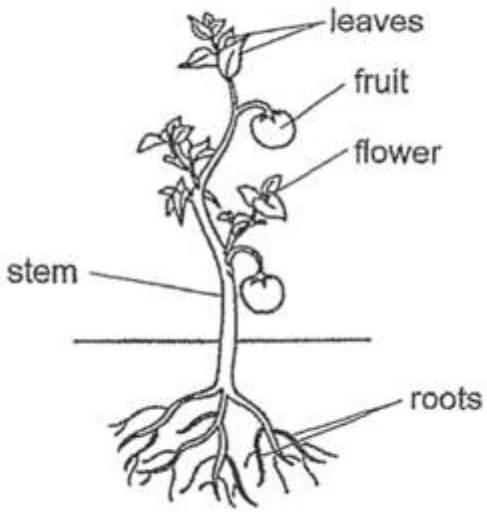
Which arrow shows pollination?

- **A)** A
- **B)** B
- **C)** C
- **D)** D

Question 10 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows a plant.



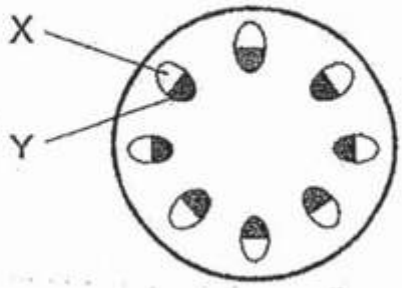
Which parts of the plant will food made by the leaves be transported to?

- **A)** Stem and root only
- **B)** Stem, fruit and root only
- **C)** Stem, fruit and flower only
- **D)** Stem, fruit , root and flower

Question 11 of 63

Primary 5 Science (Term 4) 2 pts

Umar removed the root of a plant and put it into a flask of red-coloured water for two days. After that, he cut the stem of the plant and observed the cross-section of the stem as shown below.



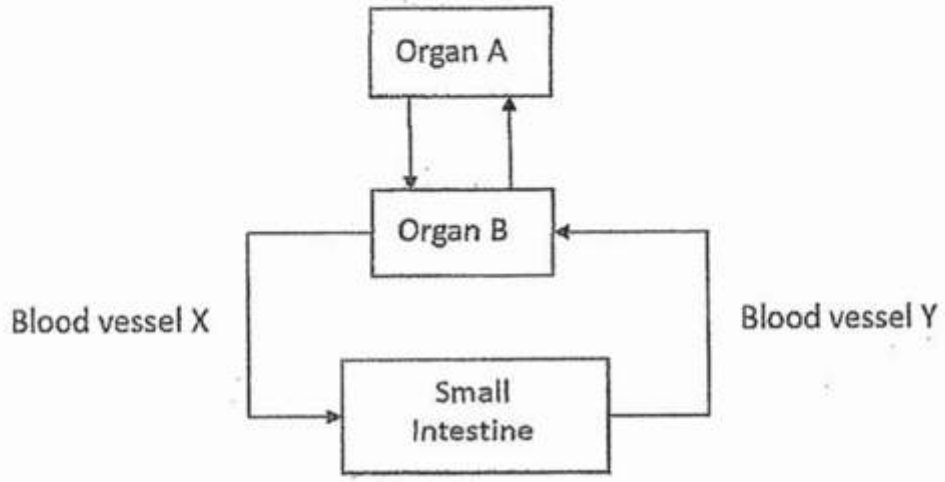
Umar observed that part Y turned red but not part X. Which of the following best explains his observation?

- **A)** Part X transports food from the roots to all parts of the plant
- **B)** Part Y transports water from the roots to all parts of the plant
- **C)** Part X transports food from the leaves to all parts of the plant
- **D)** Part Y transports water from the leaves to all parts of the plant

Question 12 of 63

Primary 5 Science (Term 4) 2 pts

The chart below shows how substances are transported in the human body.



Which of the following is correct?

	Organ A	Organ B	Carbon dioxide at X compared to Y	Digested food at Y compared to X
(1)	Lungs	Heart	More	More
(2)	Lungs	Heart	Less	More
(3)	Heart	Lungs	More	Less
(4)	Heart	Lungs	Less	Less

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

Question 13 of 63

Primary 5 Science (Term 4) 2 pts

Which of the following statements about the human circulatory system are correct?

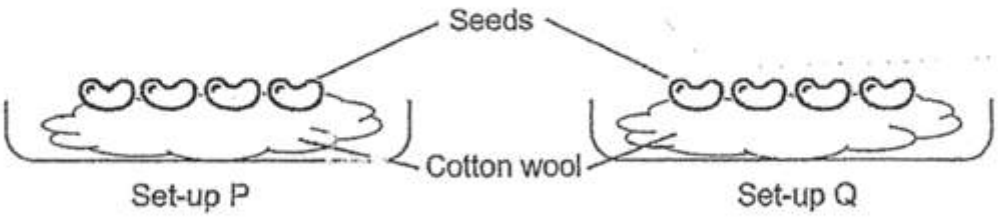
A Blood vessels carry blood rich in carbon dioxide from the lungs to the heart
B Blood vessels carry blood rich in oxygen from the lungs to the heart
C The heart is an organ that pumps blood containing substances to all parts of the body
D The digestive system digests food and the digested food is absorbed by the blood and transported to all parts of the body

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

Question 14 of 63

Primary 5 Science (Term 4) 2 pts

Raju prepared two set-ups, P and Q, as shown in the diagram below. He only changed one variable in the experiment.



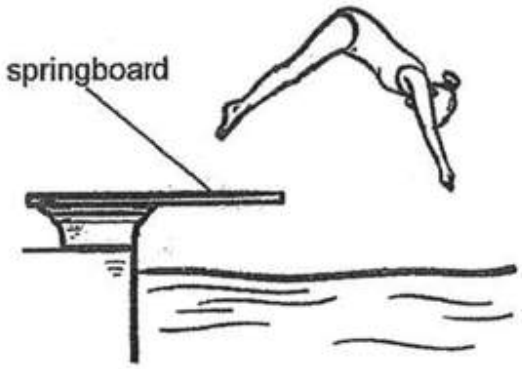
After 4 days, Raju noticed that all the seeds in both set-ups germinated. Which of the following is the changed variable?

- **A)** presence of light
- **B)** presence of water
- **C)** presence of oxygen
- **D)** presence of warmth

Question 15 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows a girl diving from a springboard at a swimming pool.



Which properties of material are important for making the springboard?

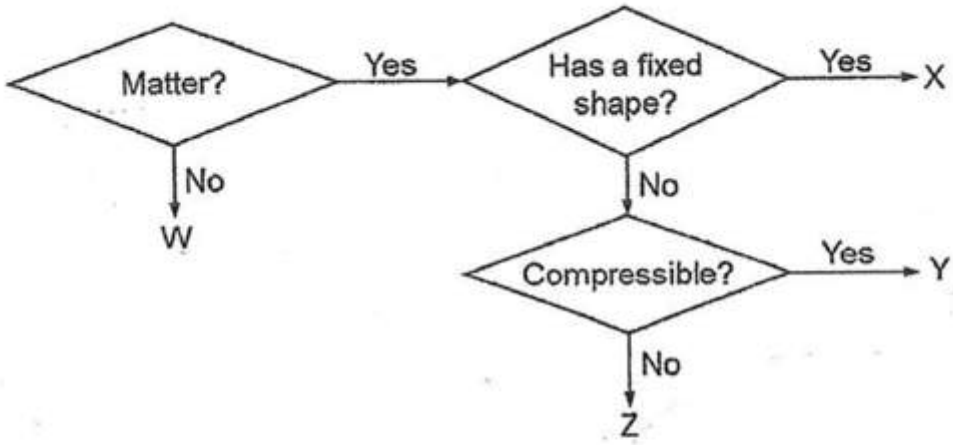
	Flexible	Strong	Waterproof
(1)	✓	✓	
(2)		✓	✓
(3)	✓		✓
(4)	✓	✓	✓

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

Question 16 of 63

Primary 5 Science (Term 4) 2 pts

Study the diagram below.



Which of the following correctly identify substances W, X, Y and Z?

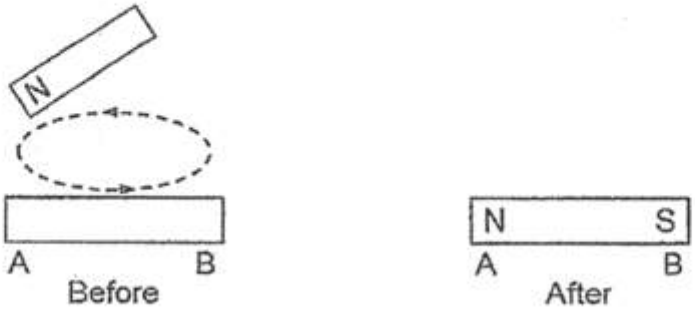
	W	X	Y	Z
(1)	heat	glass	sand	water vapour
(2)	light	nitrogen	paper	iron
(3)	air	wood	plastic	steel
(4)	shadow	stone	oxygen	water

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

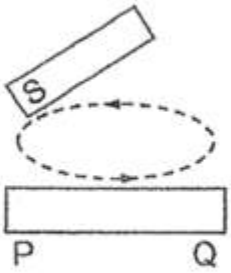
Question 17 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows an iron bar AB that is magnetised using the stroking method.

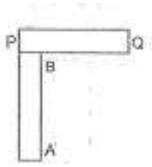


Another iron bar, PQ, was magnetised using the same magnet.

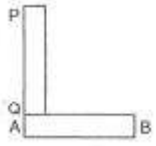


Which one of the following diagrams shows a possible arrangement of iron bars AB and PQ after they were magnetised?

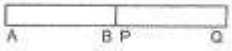
A)



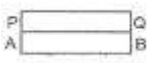
B)



C)



D)



Question 18 of 63

Primary 5 Science (Term 4) 2 pts

The diagram below shows a plastic ball before and after it has been dented. There was no hole on the ball.

Which of the following correctly represent the volume and mass of air in the plastic ball before and after it has been dented?

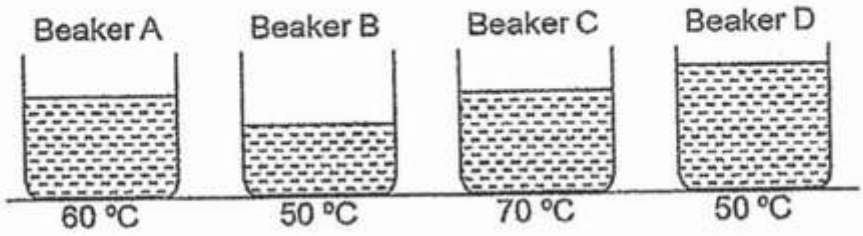
	Before		After	
	Volume of ball (cm^3)	Mass of ball (g)	Volume of ball (cm^3)	Mass of ball (g)
(1)	155	97	140	97
(2)	155	97	140	93
(3)	155	97	155	97
(4)	155	97	155	93

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

Question 19 of 63

Primary 5 Science (Term 4) 2 pts

Josiah wanted to investigate how the amount of heat in water is affected by its volume. Four identical beakers, A, B, C and D, were filled with different volume of water and heated to different temperatures.



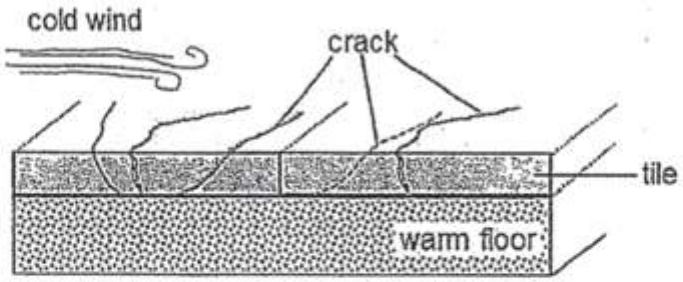
Which beakers should he choose to conduct the experiment?

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

Question 20 of 63

Primary 5 Science (Term 4) 2 pts

When air becomes very cold suddenly, cracks appeared on the pavement.



Which of the following explain how the change in temperature caused the pavement to crack?

A The cold wind caused the top of tile to expand.
B The cold wind caused the top of tile to contract.
C The warm floor caused the bottom of tile to expand.
D The warm floor caused the bottom of tile to contract.

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

Question 21 of 63

Primary 5 Science (Term 4) 1 pt

Vasu shone a torch on a vase and the shadow was cast onto the screen.

If Vasu wanted to make the shadow of the vase bigger, he should _____.

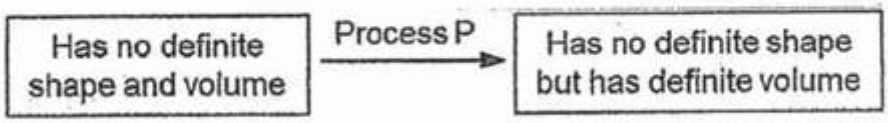
A move the torch nearer to the vase
B move the screen nearer to the vase
C move the torch further away from the vase
D move the screen further away from the vase

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

Question 22 of 63

Primary 5 Science (Term 4) 1 pt

The diagram below shows the change in state of water.



What is process P?

A) Boiling
B) Freezing
C) Evaporation
D) Condesation

Question 23 of 63 Primary 5 Science (Term 4) 2 pts

The table below shows the melting points and boiling points of four substances, J, K, L and M.

Substance	Melting point (°C)	Boiling Point (°C)
J	0	100
K	10	85
L	25	110
M	50	180

At which temperature would all the substances be in the same state?

- **A)** 0
- **B)** 30
- **C)** 80
- **D)** 160

Question 24 of 63

Primary 5 Science (Term 4) 2 pts

Yasmin placed four containers, P, Q, R and S, filled with 250 ml of water in the school field. She measured the amount of water left in each container at the end of the day and recorded the results in the following table.

Container	Amount of water left at the end of the day (ml)
P	150
Q	175
R	190
S	175

Which of the following statements are correct?

A Container P has the lowest rate of evaporation.
B More water is evaporated from container S than R.
C Container R has the largest exposed surface area of water.
D The rate of evaporation of water in container Q and S is the same.

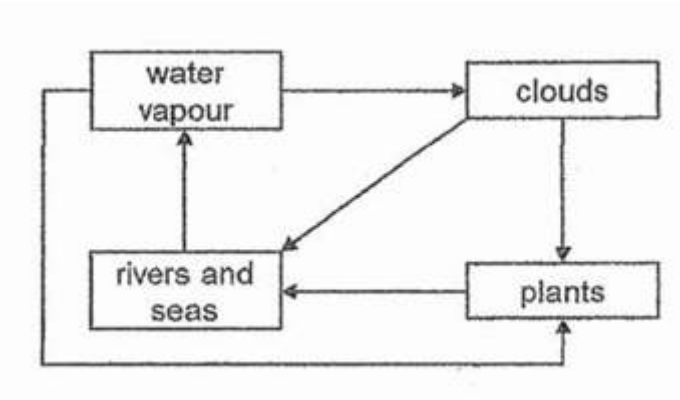
- **A)** A and C only
- **B)** B and D only
- **C)** A, C and D only
- **D)** B, C and D only

Question 25 of 63

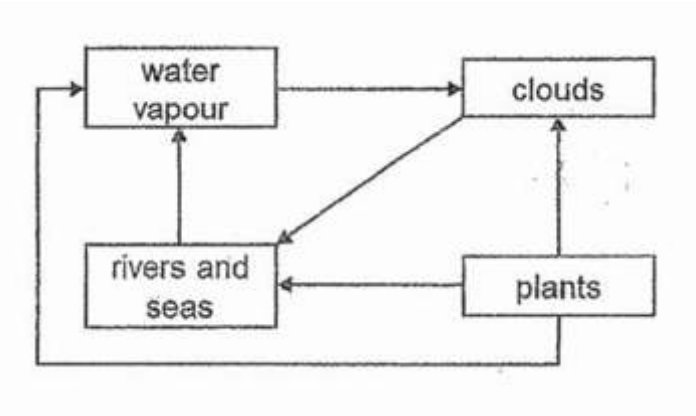
Primary 5 Science (Term 4) 2 pts

Which one of the following shows how plants play a part in the water cycle?

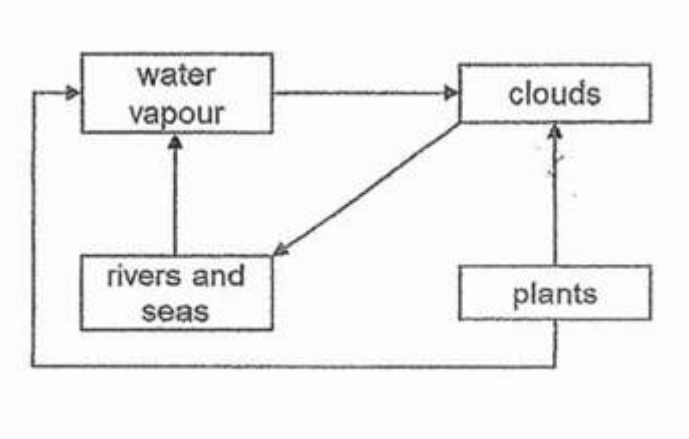
A)



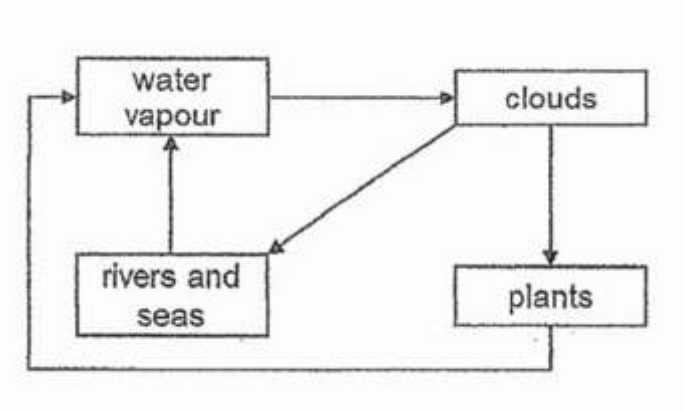
B)



C)



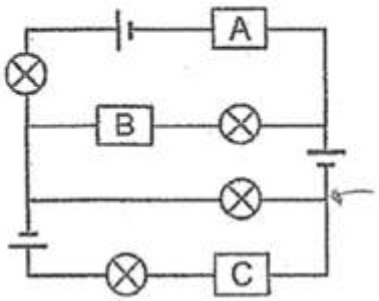
D)



Question 26 of 63

Primary 5 Science (Term 4) 2 pts

Three materials, A, B and C, are connected in an electric circuit and only two bulbs lit up.



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

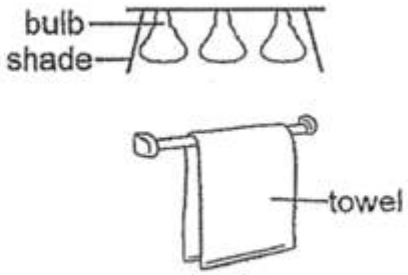
	A	B	C
(1)	iron	copper	wood
(2)	plastic	iron	copper
(3)	wood	plastic	copper
(4)	copper	wood	iron

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

Question 27 of 63

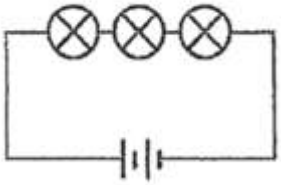
Primary 5 Science (Term 4) 2 pts

The diagram below shows three identical light bulbs of a lamp in the bathroom.

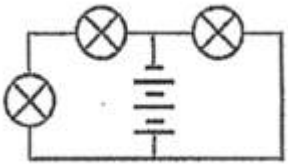


Which one of the following circuits should be used for the lamp so that the towel will dry in the shortest time?

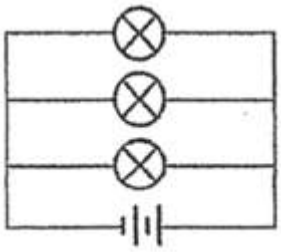
A)



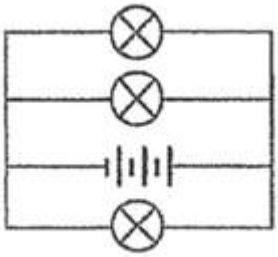
B)



C)



D)



Question 28 of 63

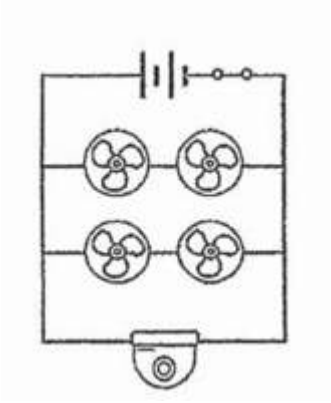
Primary 5 Science (Term 4) 2 pts

The diagram below shows a drone. When the switch is closed, the camera and propellers are turned on.

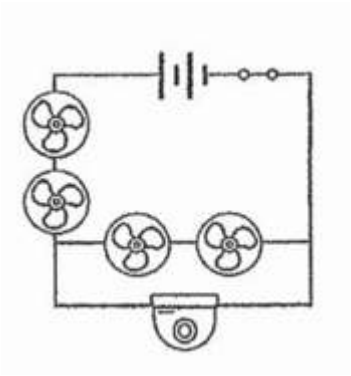
When a propeller stopped working, only the camera continue to work.

Which one of the following electrical circuit diagrams shows the connection of the camera and the propellers?

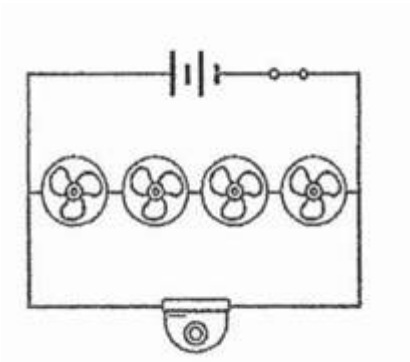
A)



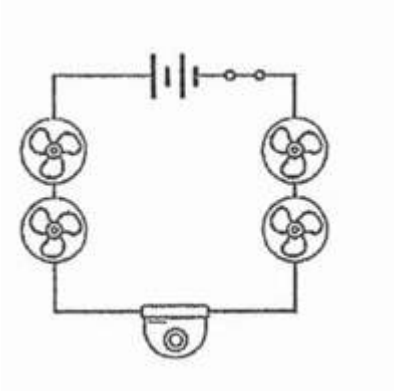
B)



C)



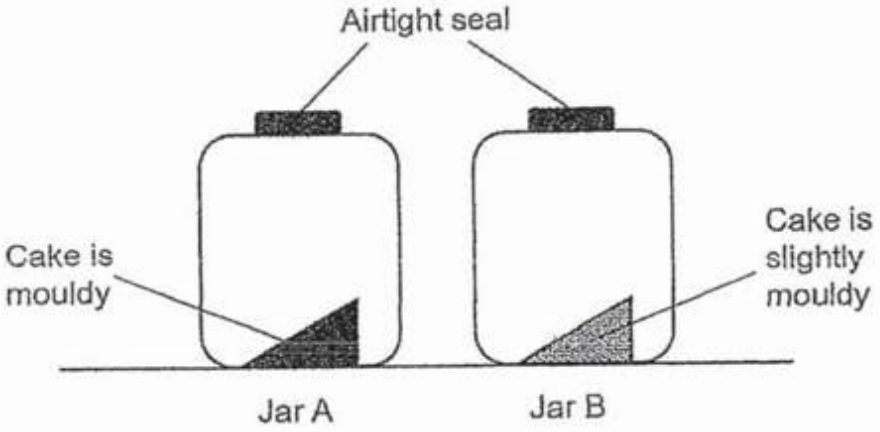
D)



Question 29 of 63

Primary 5 Science (Term 4) 2 pts

Hannah put two pieces of cakes into two identical jars, A and B and added a few drops of water to the cake in jar A. She ensured that the jars were airtight sealed so that no air could enter the jars. The diagram below shows the results of her experiment after three days.



Which group of living thing does mould belong to? [1]

Question 30 of 63

Primary 5 Science (Term 4) 0 pts

b) Why does Hannah have to use airtight jars to ensure that the experiment is a fair test? Explain your answer

Question 31 of 63

Primary 5 Science (Term 4) 0 pts

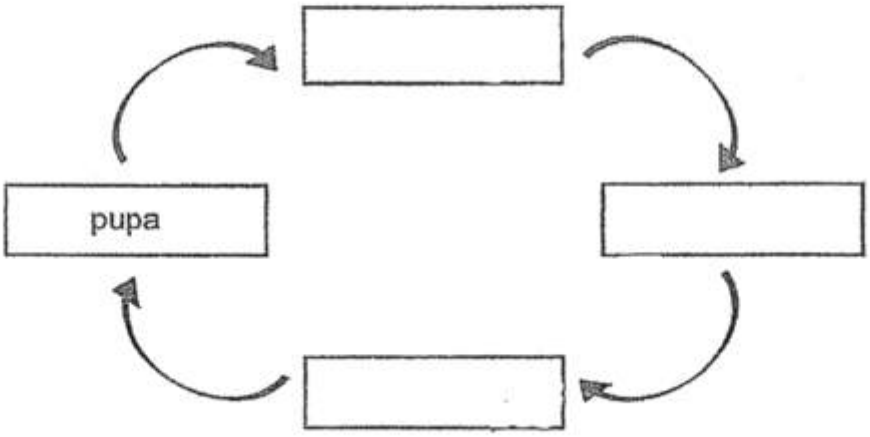
c) Hannah repeated her experiment by using a third piece of cake she heated in an oven. She observed that the cake did not turn mouldy after three days. Give a reason for Hannah's observation

Question 32 of 63

Primary 5 Science (Term 4) 0 pts

Aaliyah studied the life cycle of an insect P.

Complete the life cycle of insect P by writing down the stages in the correct order. [1]



Question 33 of 63

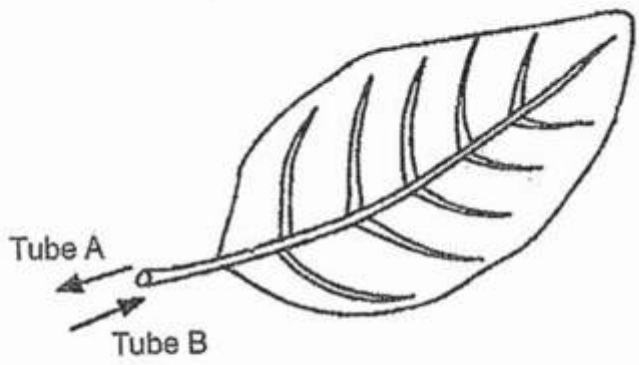
Primary 5 Science (Term 4) 0 pts

b) can insect be a cockroach ? Explain your answer

Question 34 of 63

Primary 5 Science (Term 4) 0 pts

The diagram below shows a leaf from a plant.



) Substances are transported in tubes A and B. Name the tubes.

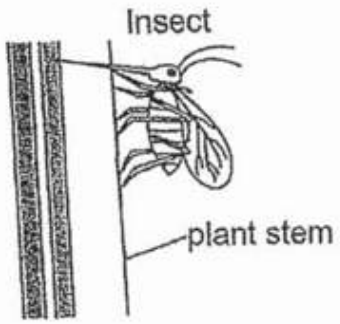
A: _____

B: _____

Question 35 of 63

Primary 5 Science (Term 4) 0 pts

An insect is feeding on the sap of the plant as shown below.

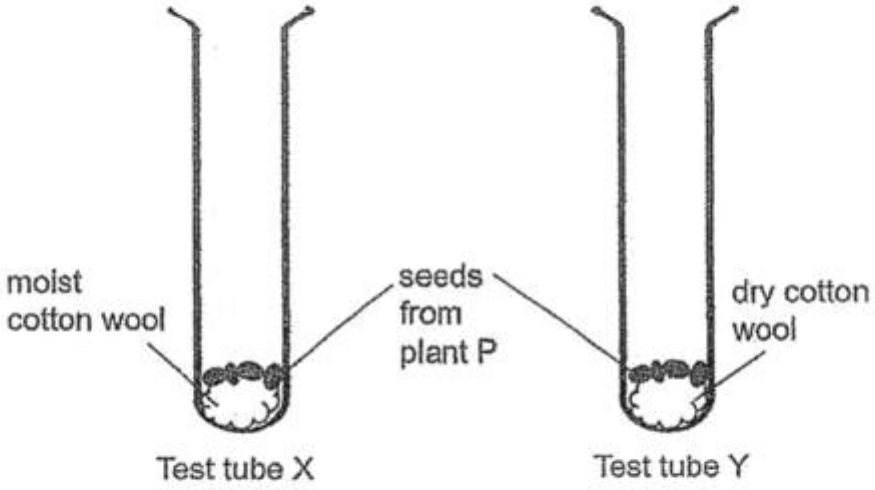


(b) Explain why the growth of the plant roots can be affected when the insect feeds on the sap. [2]

Question 36 of 63

Primary 5 Science (Term 4) 0 pts

Bala carried out an experiment to investigate seed germination of plant P as shown in the diagram below.



During the experiment, the cotton wool in test tube X was kept moist, while the cotton wool in test tube Y was kept dry.

(i) Bala decided to put the test tubes on a table near the windows. Explain why the location is suitable for Bala's experiment. [1]

Question 37 of 63

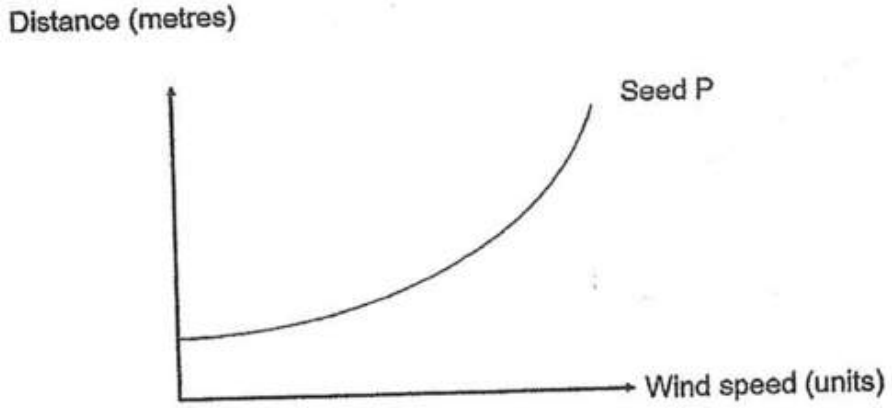
Primary 5 Science (Term 4) 0 pts

ii) In which test tube, X or Y, would the seeds germinate? Explain your answer

Question 38 of 63

Primary 5 Science (Term 4) 0 pts

Bala then plotted the graph below to show how wind speed can affect the distance travelled by the seed P.



(b) Based on the graph above, which fruit A, B or C, does seed P belong to? Explain your answer. [1]

Question 39 of 63

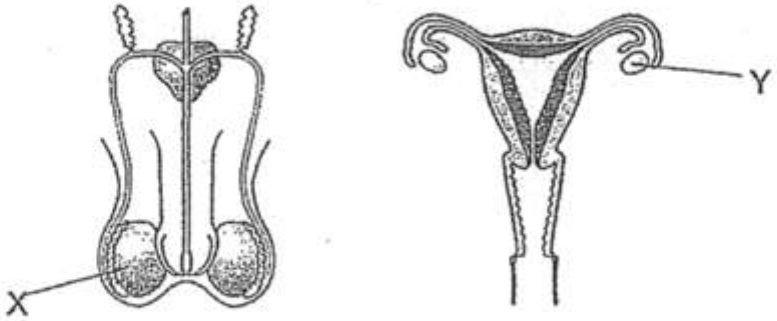
Primary 5 Science (Term 4) 0 pts

c) Seed dispersal is one of the many processes involved in plant reproduction. Explain why seed dispesal is important

Question 40 of 63

Primary 5 Science (Term 4) 1 pt

The diagram below shows the male and female reproductive systems in humans.



Name organ X and organ Y. [1]

Organ X: _____

Question 41 of 63

Primary 5 Science (Term 4) 1 pt

Organ Y: _____

Question 42 of 63

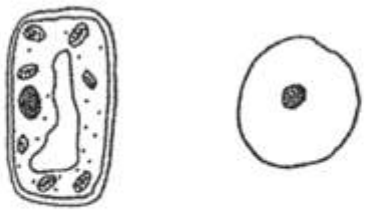
Primary 5 Science (Term 4) 0 pts

b) Which part of a flower has the same function as part X? Explain your answer

Question 43 of 63

Primary 5 Science (Term 4) 0 pts

The diagram below shows two cells.



Cell X Cell Y

(i) Which of the cells, X or Y, is taken from the cheek of a human? Give a reason for your answer. [1]

Question 44 of 63

Primary 5 Science (Term 4) 0 pts

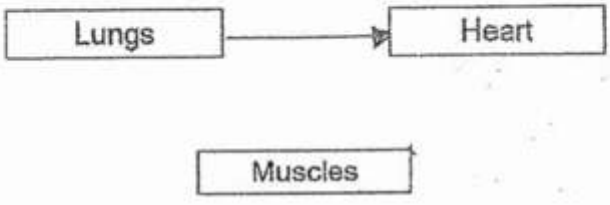
ii) Which plant part is cell X taken from? Explain your answer

Question 45 of 63

Primary 5 Science (Term 4) 0 pts

Ali wants to find out how his average heart rate changes when he runs.

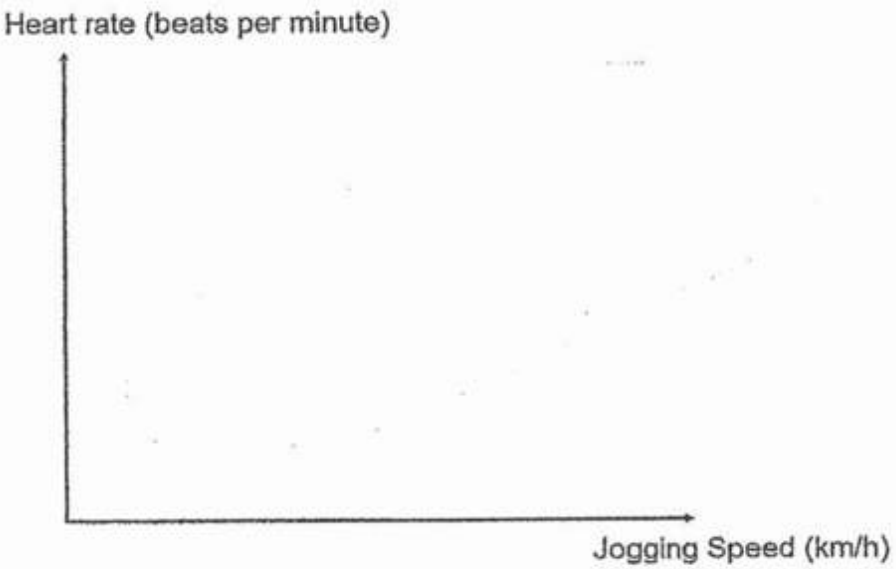
Three organs of the body are shown below. Draw two arrows (⟶) in the diagram below to show how blood rich in oxygen is transported through the organs. [1]



Question 46 of 63

Primary 5 Science (Term 4) 0 pts

) The graph below shows how Ali's heart rate changes as he jogs.



(i) What is the relationship between Ali's jogging speed and his heart rate? [1]

Question 47 of 63

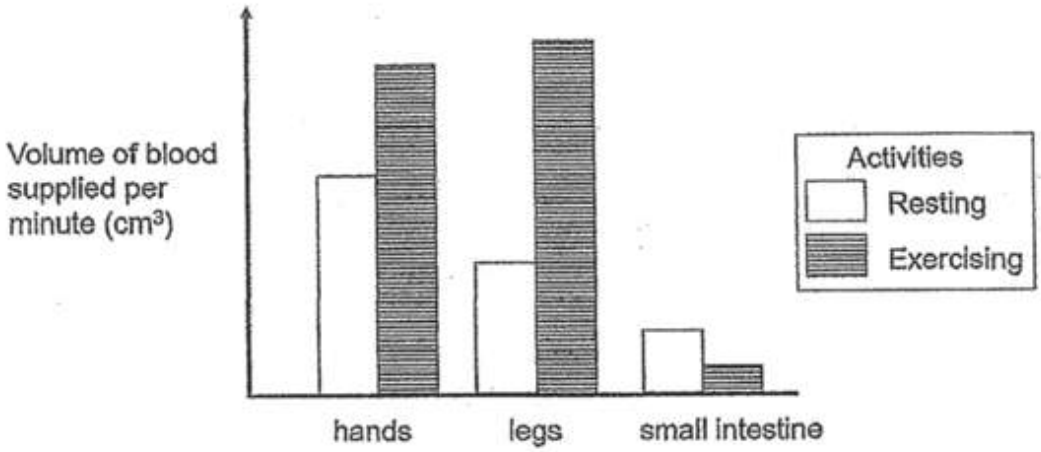
Primary 5 Science (Term 4) 0 pts

ii) Explain your answer in bi

Question 48 of 63

Primary 5 Science (Term 4) 0 pts

Ali carried out an experiment to measure the volume of blood supplied per minute to different parts of the human body during two activities: resting and exercising.

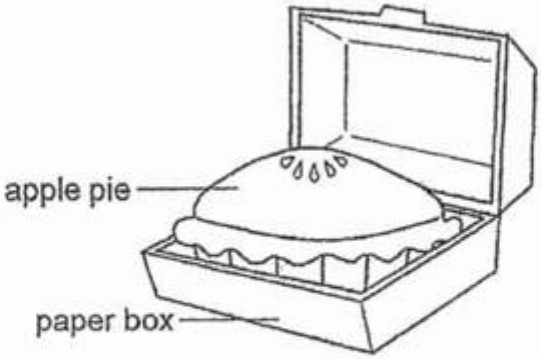


(c) Based on the graph above, explain how exercising after having a meal will affect the absorption of food in the small intestine. [2]

Question 49 of 63

Primary 5 Science (Term 4) 0 pts

Felix baked an apple pie and brought it to a party in a paper box as shown below.

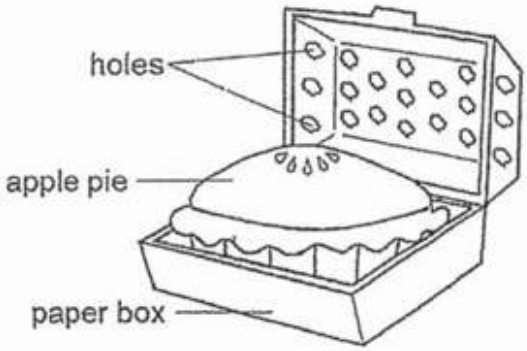


When she opened the paper box, she found that the inner surface of the cover and the apple pie were wet.

Explain why the apple pie became wet. [2]

Question 50 of 63 Primary 5 Science (Term 4) 0 pts

Felix put another apple pie into a similar paper box. The paper box and apple pie were not damp.



(b) Give an explanation for Felix's observation. [1]

Question 51 of 63

Primary 5 Science (Term 4) 0 pts

Mr Murthu is famous for making 'teh tarik', or 'pulled tea'. He transferred hot tea from one container into another at a certain distance for five times and created a cup of tea with foam as shown below.

His son, Anaisha, carried out an experiment to find out if the distance between the containers, *d*, affects the final temperature of the 'pulled' tea. The results are as shown in the table below.

Distance, *d* (cm)	50	60	70	80	90
Final temperature of the 'pulled tea' (°C)	98	91	88	85	80

Based on the results, state the relationship between distance *d* and the final temperature of the 'pulled' tea. [1]

Question 52 of 63

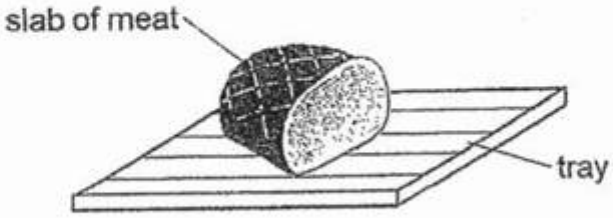
Primary 5 Science (Term 4) 0 pts

b) Explain your answer in a

Question 53 of 63

Primary 5 Science (Term 4) 0 pts

Alisha took a slab of frozen meat from the freezer and thawed it on a tray as shown in the diagram below. Thawing is a process by which a frozen substance becomes soft as a result of warming up.

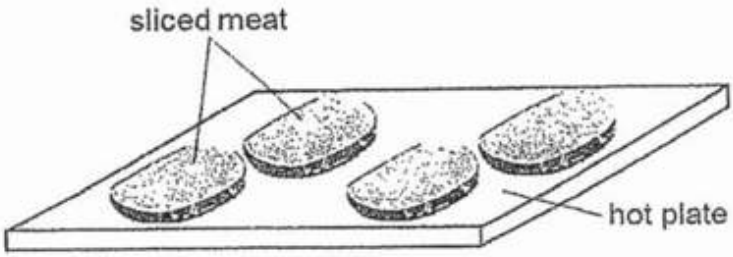


Which tray, plastic or metal, should be used so that the slab of frozen meat can be thawed in a shorter time? Explain your answer. [1]

Question 54 of 63

Primary 5 Science (Term 4) 0 pts

After the meat was thawed, Alisha cut the slab of meat into four thin slices and cooked them on a hot plate as shown in the diagram below.

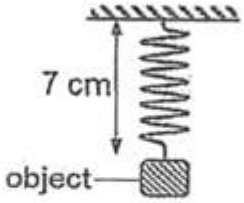


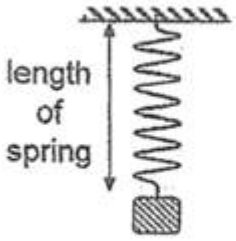
) Would the sliced meat cook faster or slower than the whole slab of meat on the hot plate? Explain your answer. [2]

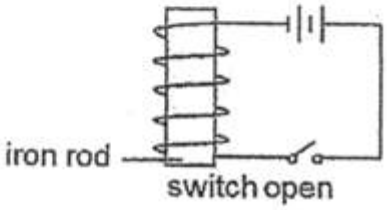
Question 55 of 63

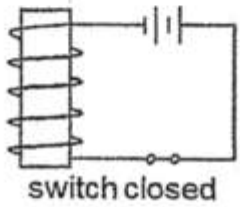
Primary 5 Science (Term 4) 0 pts

Mark carried out an experiment with the set-up as shown below. Three objects A, B and C, made of different materials of the same mass, were attached to a spring.









He measured the length of the spring before and after the switch was closed and recorded the results in the table below.

Object	Length of spring when the switch was open (cm)	Length of spring after the switch was closed (cm)
A	7	7
B	7	10
C	7	5

Based on the results, which object, A, B or C, is definitely a magnet? Explain your answer. [2]

Question 56 of 63

Primary 5 Science (Term 4) 0 pts

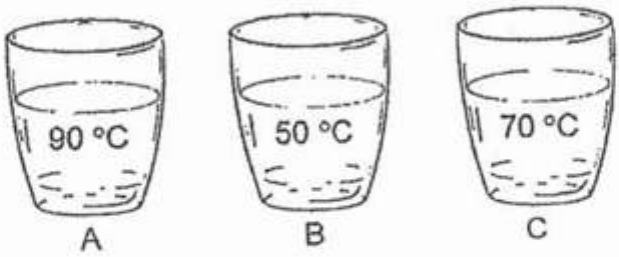
b) Mark repeated the experiment by increasing the number of coils of wire around the iron rod and attached object B to the spring.

What would Mark observe about object B? Explain your answer

Question 57 of 63

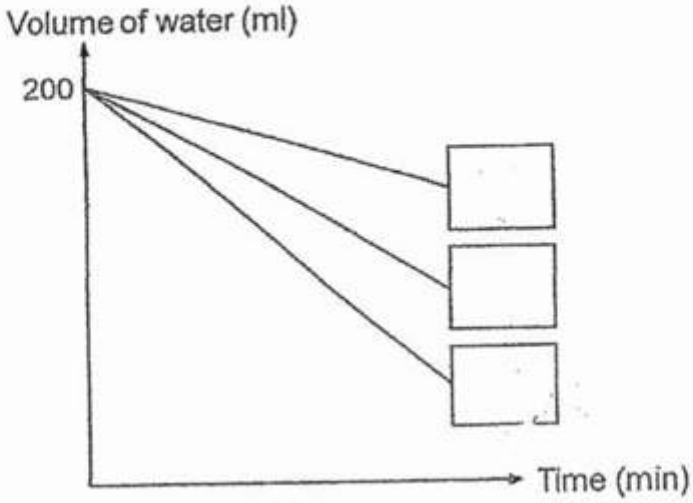
Primary 5 Science (Term 4) 0 pts

Johan poured 200 ml of water of different temperatures into three identical containers, A, B and C, and placed them in an open field on a sunny day.



Johan measured the temperature of the water and plotted the graph as shown below.

Label the lines in the graph by writing the letters (**A** and **B**) in the correct boxes according to the amount of water that would be left after 60 minutes. [1]



Question 58 of 63

Primary 5 Science (Term 4) 0 pts

c) State a difference between evaporation and boiling of water

Question 59 of 63

Primary 5 Science (Term 4) 0 pts

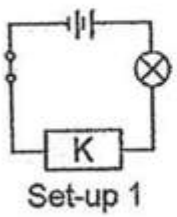
Johan went for a swim. When he came out from the water, his body was wet and he felt cold. As he walked past a rotating fan, he felt even colder.

(d) Explain why Johan felt even colder when he walked past the fan. [1]

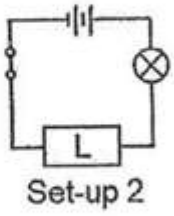
Question 60 of 63

Primary 5 Science (Term 4) 0 pts

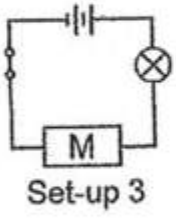
Mr Tan prepared three set-ups using identical batteries, wire and bulbs. Objects K, L and M are connected in the circuits as shown. The results of the experiment is as shown in the table.



Set-up 1



Set-up 2



Set-up 3

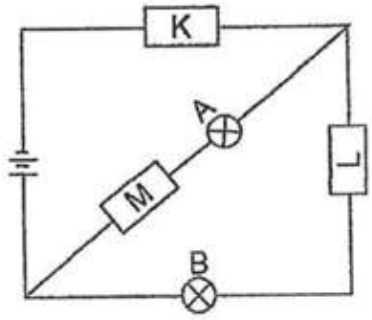
Set-Up	Bulb lit up
1	Yes
2	No
3	Yes

From the results, which object is most likely to be an electrical insulator. Give a reason. [1]

Question 61 of 63

Primary 5 Science (Term 4) 0 pts

Mr Tan connected objects K, L and M in another circuit as shown below.

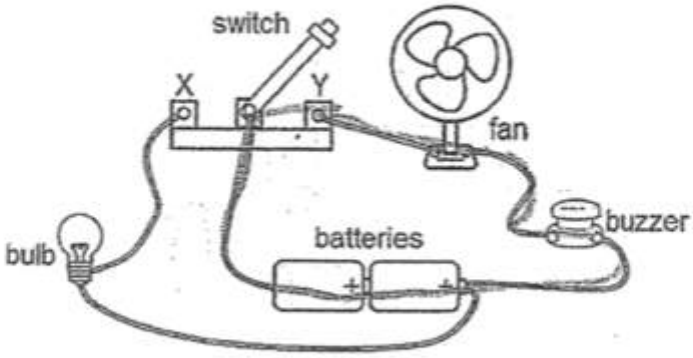


(b) Will bulbs A and B light up? Explain your answer. [2]

Question 62 of 63

Primary 5 Science (Term 4) 0 pts

Kelly sets up an electric circuit as shown below. The switch can be closed at either point X or Y.



What will Kelly observe when she closes the switch at point Y? [1]

Question 63 of 63

Primary 5 Science (Term 4) 0 pts

Refer to the diagram below. Complete the circuit diagram for the above circuit when the switch is closed at point X. Label points X and Y clearly. [2]