

Test: Primary 5 Science (Term 4) - SCGS

Points: 73 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 70

Primary 5 Science (Term 4) 2 pts

For each question, four options are given. One of the is the correct answer. (56 marks)

Which of the following are characteristics of birds?

A: Can fly

B: Lay eggs

C: Have gills

D: Have feathers

A) A and D only

B) A and C only

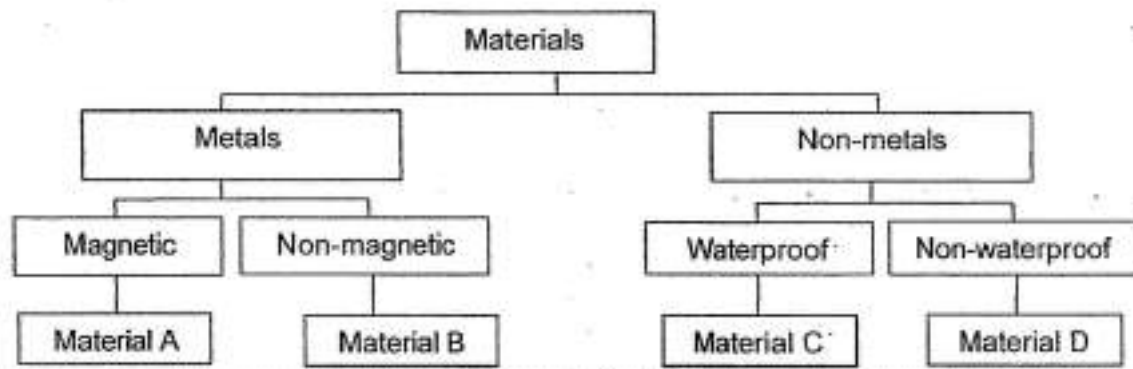
C) B and C only

D) B and D only

Question 2 of 70

Primary 5 Science (Term 4) 2 pts

Study the classification chart below.



Based on the classification chart above, which one of the following statements is correct?

- A) Material A can conduct electricity.
- B) Material B can be made into a magnet.
- C) Material C can absorb water.
- D) Material D is a good conductor of heat.

Question 3 of 70

Primary 5 Science (Term 4) 2 pts

Which one of the following cell part is matched correctly to its function?

- A)

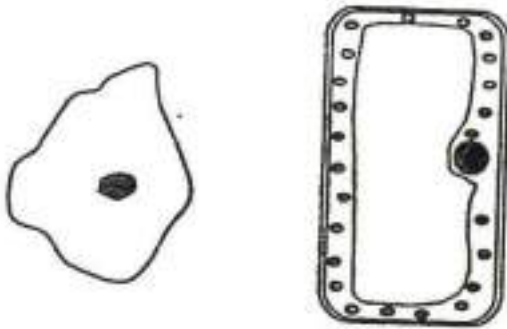
Cell Part	Function
Cytoplasm	Absorbs light energy
- B)

Cell Part	Function
Cell Wall	Gives the cell its regular shape
- C)

Cell Part	Function
Cell membrane	Controls everything within the cell
- D)

Cell Part	Function
Nucleus	Controls substances that enter and exit the cell

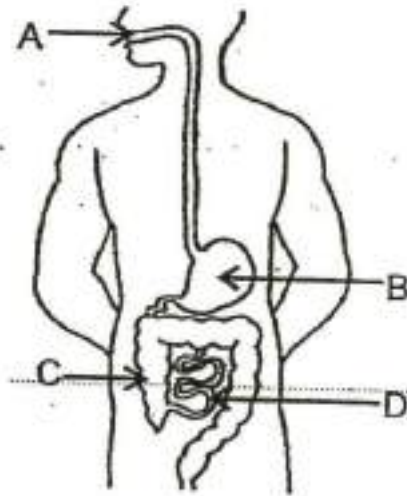
Observe the 2 cells below.



Which one of the following statements is true about both cells?

-
- A) Both are plant cells.
 - B) Both are animal cells.
 - C) Both have cell membrane.
 - D) Both can carry out photosynthesis.

The diagram below shows the human digestive system.



Which one of the following correctly shows the functions of A, B, C and D?

- A)

Digest food	Absorbs digested food	Absorbs excess water
B	A and D	C
- B)

Digest food	Absorbs digested food	Absorbs excess water
A	B, C and D	D
- C)

Digest food	Absorbs digested food	Absorbs excess water
C and D	B and C	D
- D)

Digest food	Absorbs digested food	Absorbs excess water
A, B and D	D	C

Which of the following belong to the human circulatory system?

A: Heart

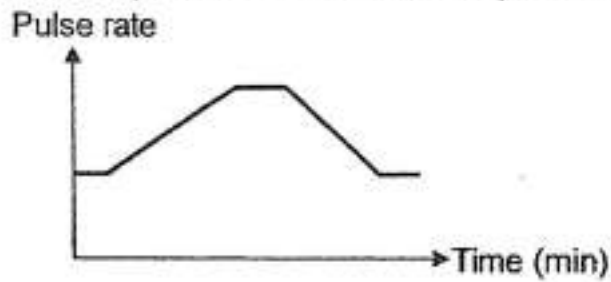
B: Blood

C: Lungs

D: Blood vessels

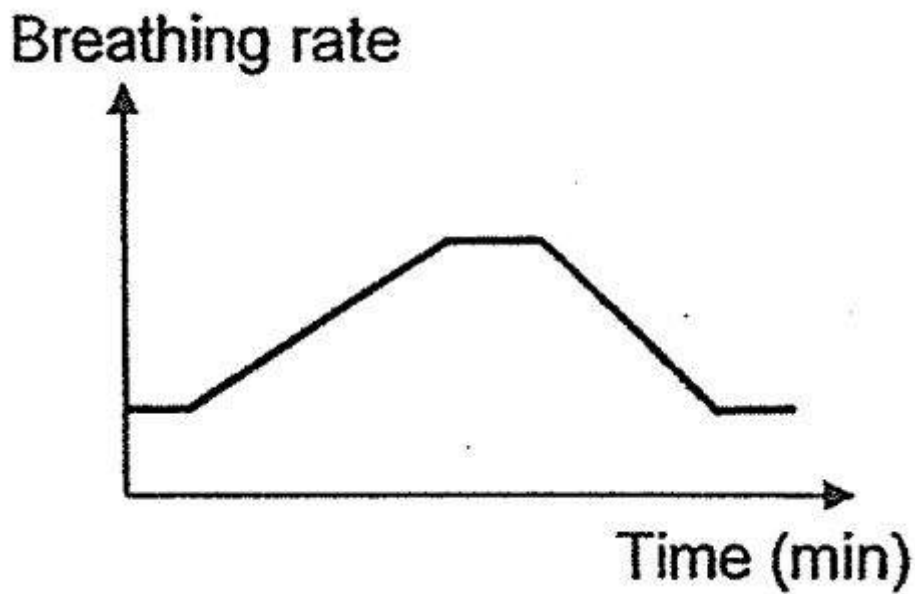
-
- A) A and C only
 - B) C and D only
 - C) A, B and D only
 - D) A, B and C only

The graph below shows the pulse rate of John over a period of time.

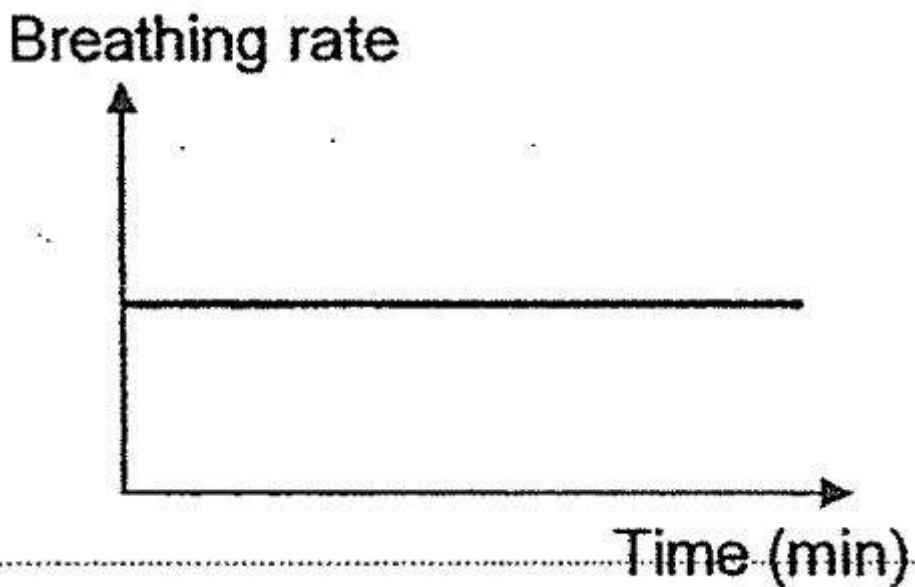


Which one of the following graphs most likely shows John's breathing rate over the same period of time?

A)

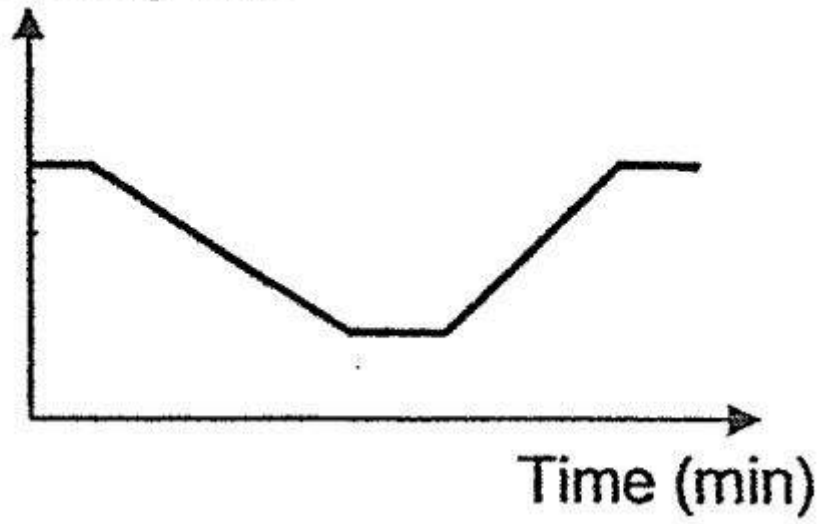


B)



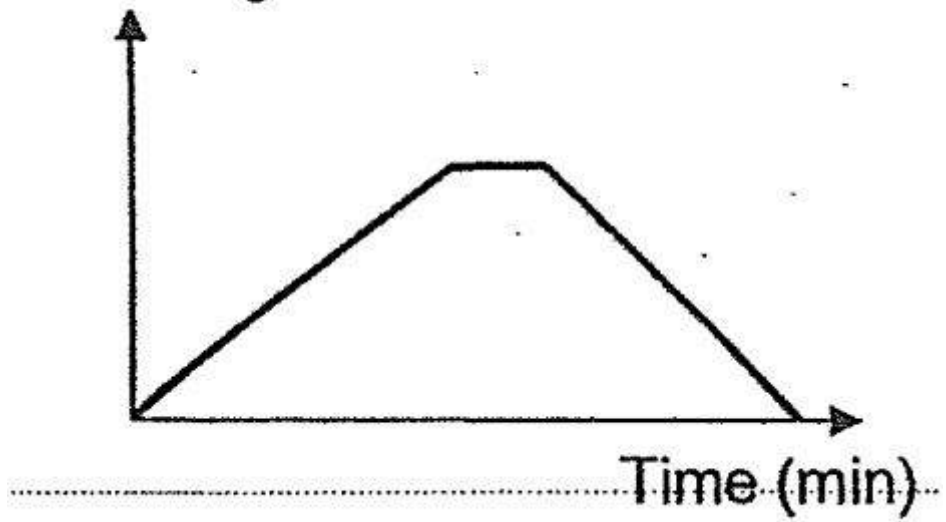
C)

Breathing rate

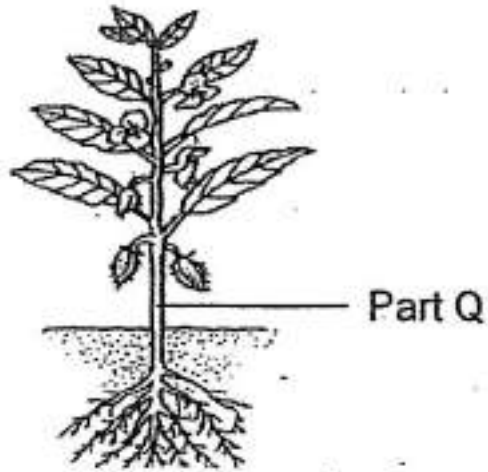


D)

Breathing rate



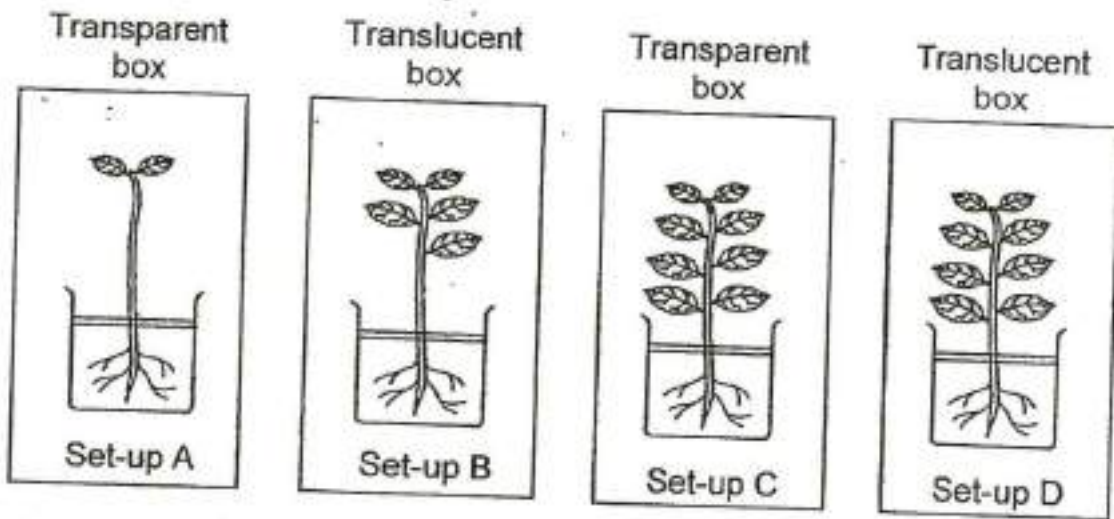
Which of the following statement/s about Part Q is correct?



- A: Take in water
- B: Transport food
- C: Holds the plant upright
- D: Anchor the firmly plant to the ground

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

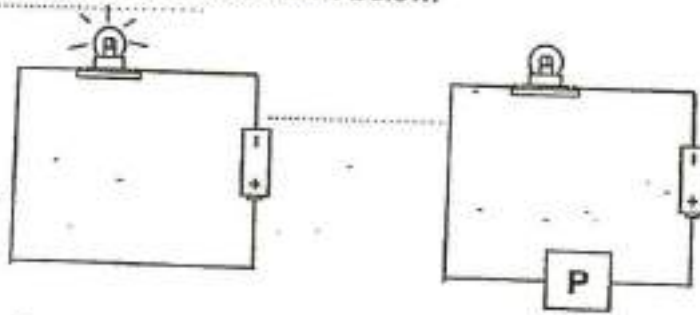
Sue Min has 4 set-ups as shown below.



Sue Min wanted to conduct 2 experiments. Which one of the following correctly shows the correct set-ups used for each aim of her experiment?

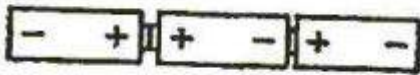
<input type="radio"/> A)	To find out if the number of leaves affects the amount of water taken in by the plant	To find out if the amount of light affects the amount of water taken in by the plant
	Set-up A and Set-up B	Set-up B and Set-up C
<input type="radio"/> B)	To find out if the number of leaves affects the amount of water taken in by the plant	To find out if the amount of light affects the amount of water taken in by the plant
	Set-up A and Set-up C	Set-up B and Set-up D
<input type="radio"/> C)	To find out if the number of leaves affects the amount of water taken in by the plant	To find out if the amount of light affects the amount of water taken in by the plant
	Set-up B and Set-up D	Set-up C and Set-up D
<input type="radio"/> D)	To find out if the number of leaves affects the amount of water taken in by the plant	To find out if the amount of light affects the amount of water taken in by the plant
	Set-up B and Set-up C	Set-up A and Set-up B

Yanni set up the circuit as shown below.



The bulb lit up at first. However, when P was connected to the circuit, the bulb did not light up. What could P most likely be?

A)



B)



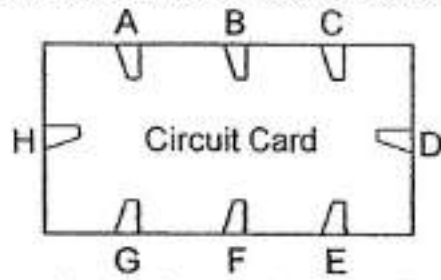
C)



D)



Sammy used a circuit tester to test the circuit card below.

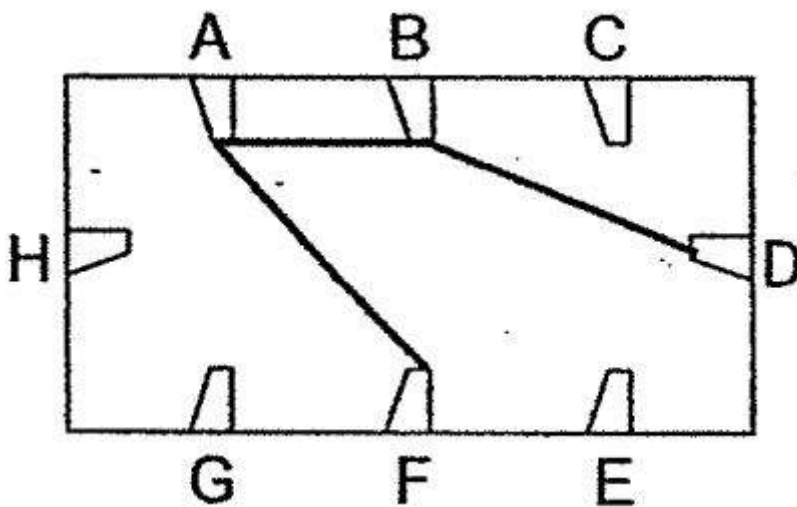


The table below shows the results of Sammy's test.

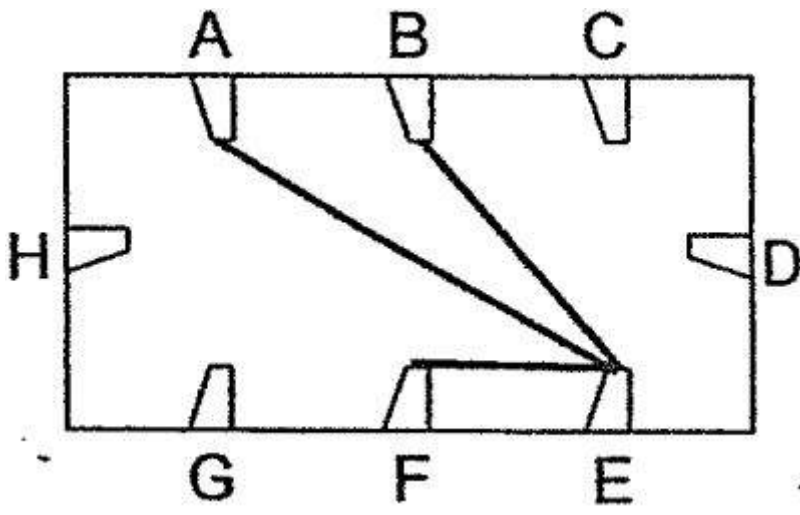
Clips tested	Did the bulb light up?
A and B	Yes
B and E	Yes
C and D	No
D and H	No
E and F	No
G and H	No

Which one of the following correctly shows the connections of the circuit card that Sammy has tested?

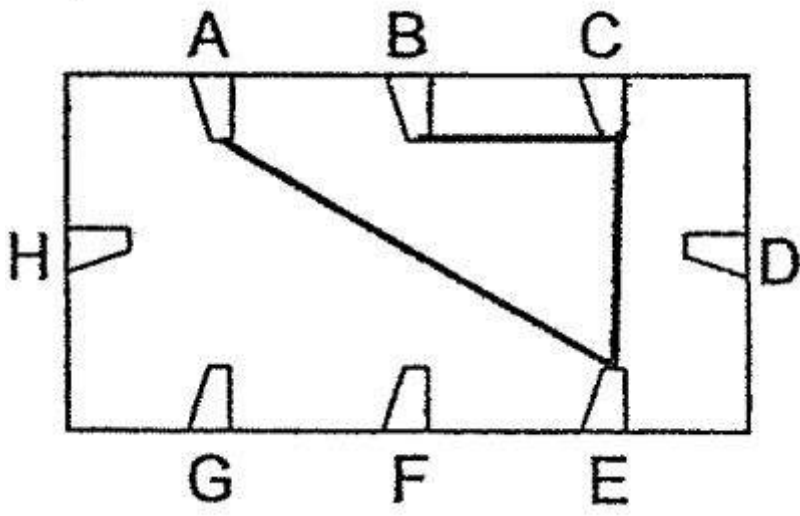
A)



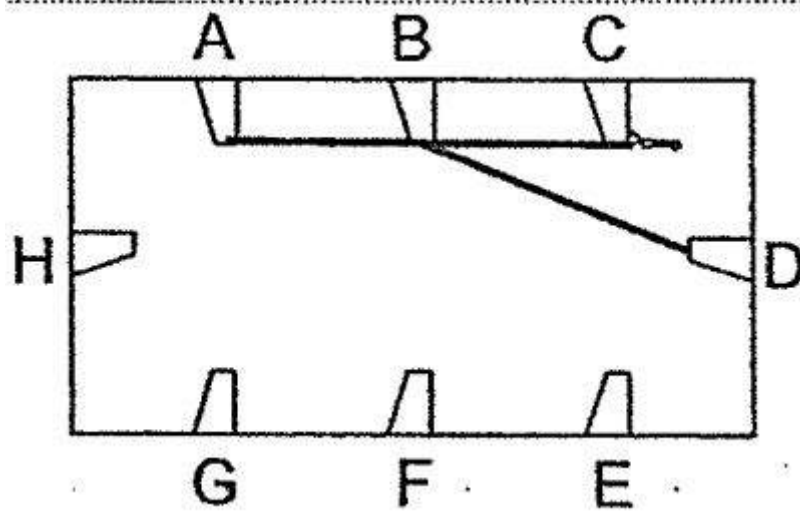
B)



○ c)



○ d)



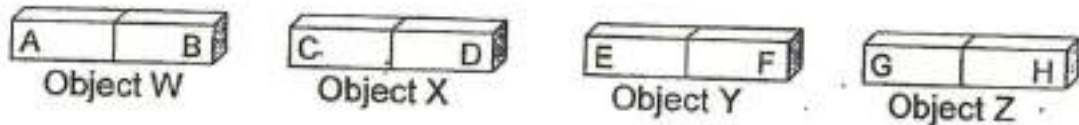
The table below shows the states of Substances X and Y at different temperatures.

Substance	40°C	60°C	80°C
X	Solid	Liquid	Liquid
Y	Solid	Liquid	Gas

Which one of the following statements is definitely correct?

- A) X has a higher boiling point than Y.
- B) X has a higher melting point than Y.
- C) X and Y are in the liquid state at 70°C.
- D) X and Y melt at the same temperature.

Minmin placed the ends of Objects W, X, Y and Z together. She recorded her observations as shown in the table below.



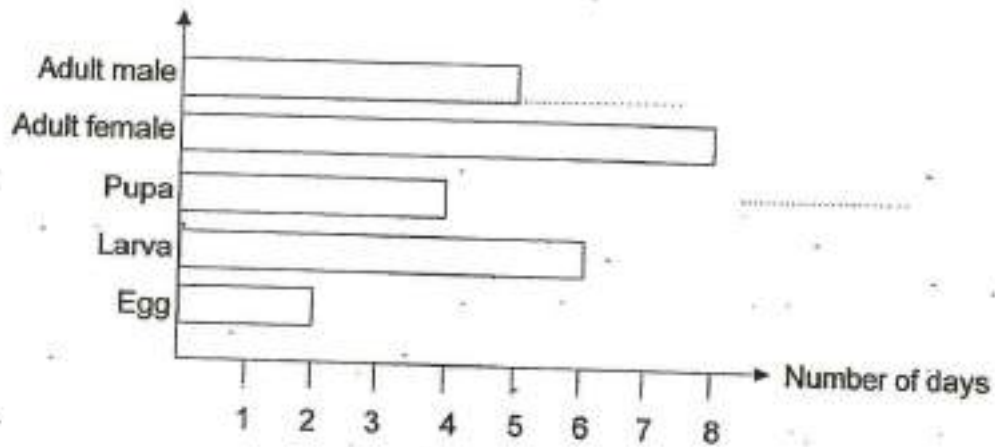
Ends placed together	Observations
B and C	Attracted
D and E	Neither attracted nor repelled
F and G	Attracted
E and G	Attracted
H and A	Attracted
B and H	Repelled

Which of the following can be concluded from Minmin's observations?

- A: Object W and Object Z are magnets.
- B: End A of Object W will repel End G of Object Z.
- C: End A of Object W will attract End E of Object Y.
- D: Object X and Object Y are non-magnetic materials.

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

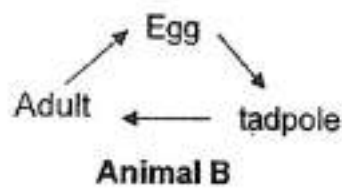
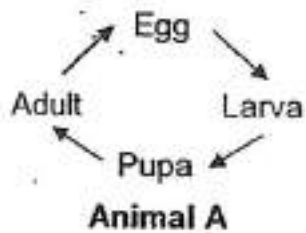
The graph below shows the duration of each stage in the life cycle of Insect A.....



How many days did Insect A take to become an adult after hatching?

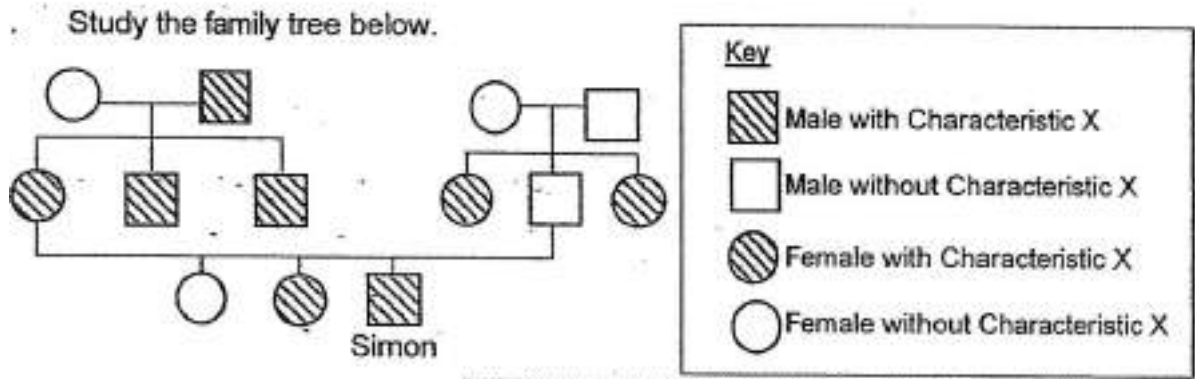
- A) 6
- B) 10
- C) 12
- D) 17

The diagrams below show the life cycles of Animal A and Animal B.



Which one of the following statements about Animal A and Animal B is definitely true?

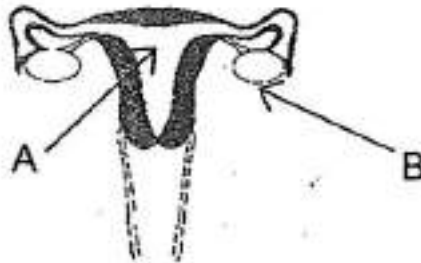
- A) Both Animal A and Animal B lay eggs in water.
- B) Animal A has 3 stages in its life cycle while animal B has 4 stages.
- C) Both the young of Animal A and Animal B do not look like their adults.
- D) Animal B and spends part of its life cycle in water but Animal A does not.



Which one of the following statements about the family tree is correct?

- A) Simon has a brother with Characteristic X.
- B) Simon's parents both have Characteristic X.
- C) Simon's uncles do not have Characteristic X.
- D) Simon's grandmothers do not have Characteristic X.

The diagram below shows the human reproductive system.



Which of the following correctly indicates parts A and B respectively?

- A)

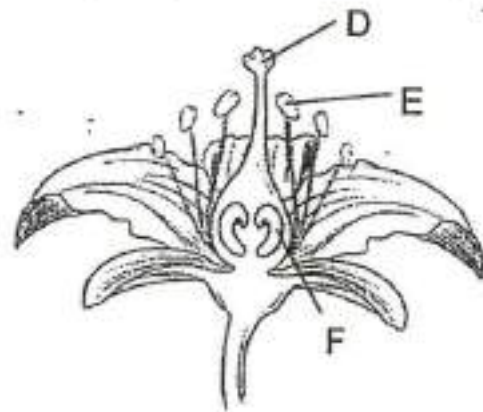
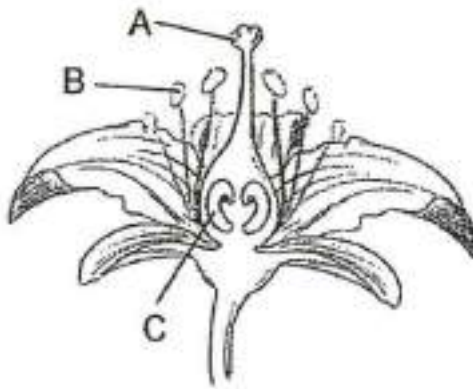
A	B
Womb	Ovary
- B)

A	B
Vagina	Ovary
- C)

A	B
Ovary	Vagina
- D)

A	B
Vagina	Womb

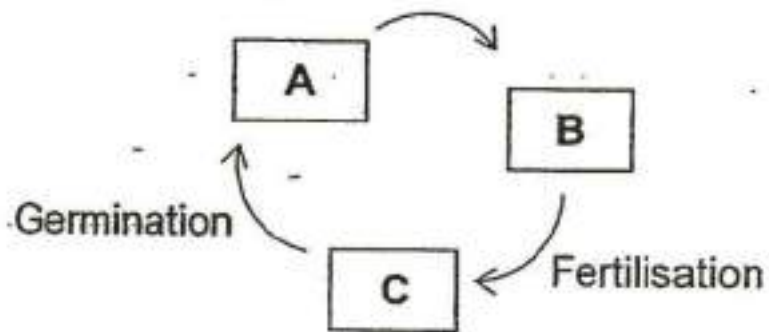
Study the diagram below.



Pollination occurs when pollen grains are transferred from _____.

- A) A to E
- B) B to D
- C) C to F
- D) B to F

The diagram below shows the life cycle of a plant.



Which one of the following correctly represents A, B and C?

- A)

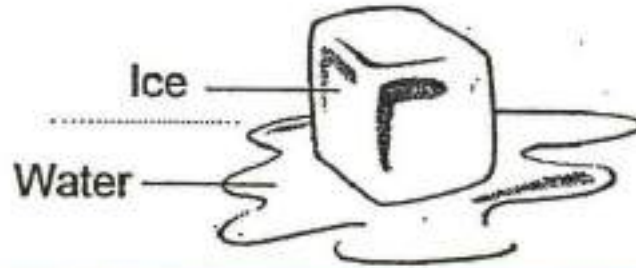
A	B	C
Seed	Adult Plant	Young Plant
- B)

A	B	C
Seed	Young plant	Adult plant
- C)

A	B	C
Adult plant	Seed	Young plant
- D)

A	B	C
Young plant	Adult plant	Seed

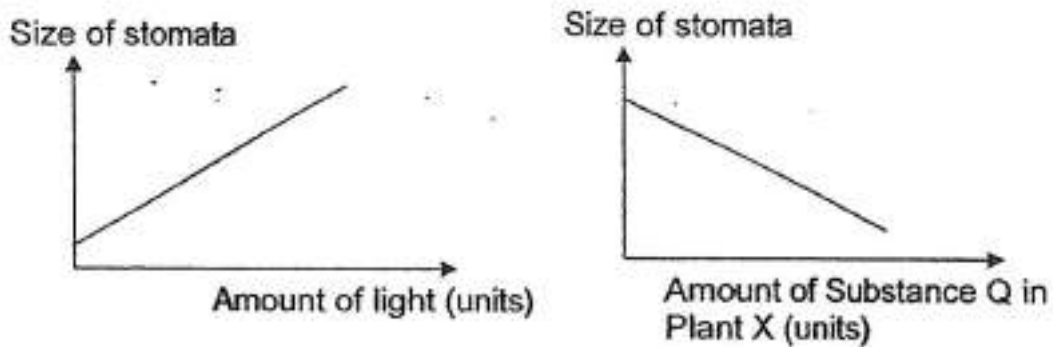
A melting block of ice was placed on a table in the kitchen.



Which one of the following statements is correct?

- A) The ice will increase in temperature.
- B) The ice will decrease in temperature.
- C) The ice will gain heat from the water around it.
- D) The water around the ice will gain heat from the ice.

The graphs below show the relationship between the amount of Substance Q in the plant and the amount of light and the size of stomata of Plant X.



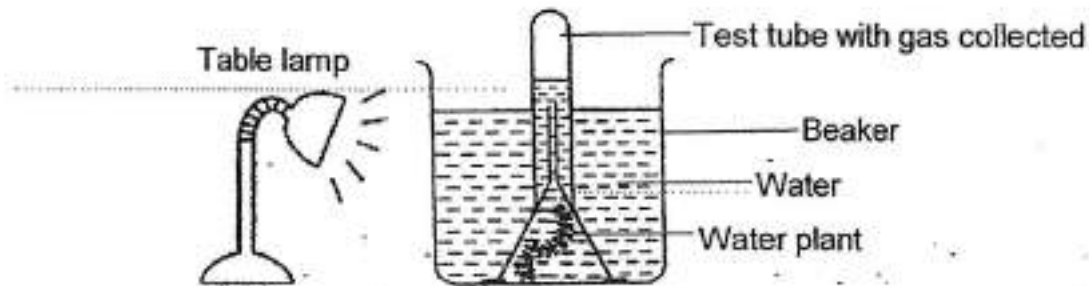
The table below show Plant X in different set-ups.

Set-ups	Amount of light (units)	Amount of Substance Q in Plant X (units)
A	Low	High
B	High	High
C	High	Low
D	Low	Low

In which set-up will Plant X have the largest stomata?

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

Mr Tan set up an experiment in a dark room as shown below.



He placed a table lamp at a distance of 40 cm from the beaker with water plant. After 30 minutes, he observed that the test tube had collected 8 cm³ of gas. He repeated the experiment by placing the lamp at different distances from the beaker.

Which one of the following shows the most likely result of this experiment?

- A)

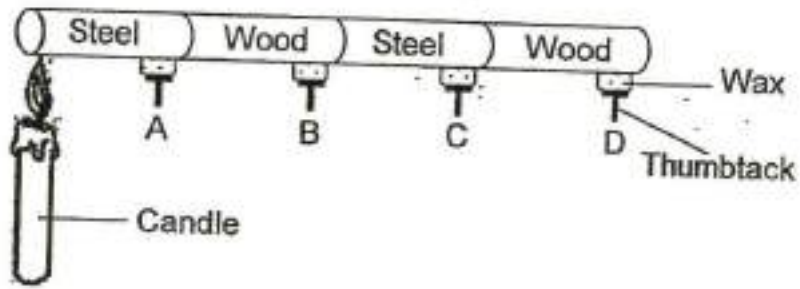
Distance between the lamp and beaker (cm)	Volume of gas collected (cm ³)
15	8 cm ³
- B)

Distance between the lamp and beaker (cm)	Volume of gas collected (cm ³)
15	3 cm ³
- C)

Distance between the lamp and beaker (cm)	Volume of gas collected (cm ³)
65	8 cm ³
- D)

Distance between the lamp and beaker (cm)	Volume of gas collected (cm ³)
65	3 cm ³

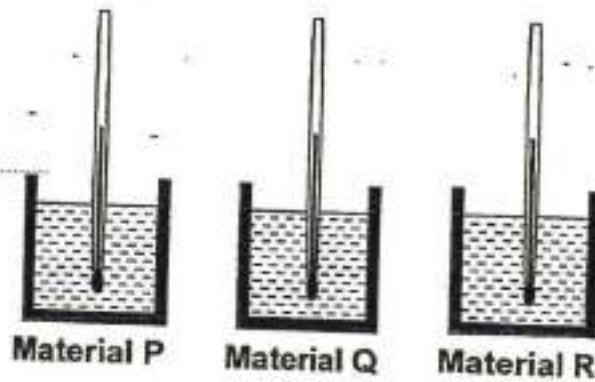
Sam had a rod with 4 segments as shown in the diagram below. Each segment had a piece of wax and a thumbtack.



Which one of the following correctly shows the sequence in which the thumbtacks will drop?

- A) A, B, C, D
- B) A, C, B, D
- C) D, C, B, A
- D) D, B, C, A

Sarah conducted an experiment as shown below.



She recorded the time taken for the water to boil for each set-up in the table below.

Materials	Time (minutes)
P	25
Q	12
R	38

Which one of the following correctly shows how well the materials conduct heat?

- A)

Material P	Material Q	Material R
Good	Poor	Very good
- B)

Material P	Material Q	Material R
Poor	Good	Very good
- C)

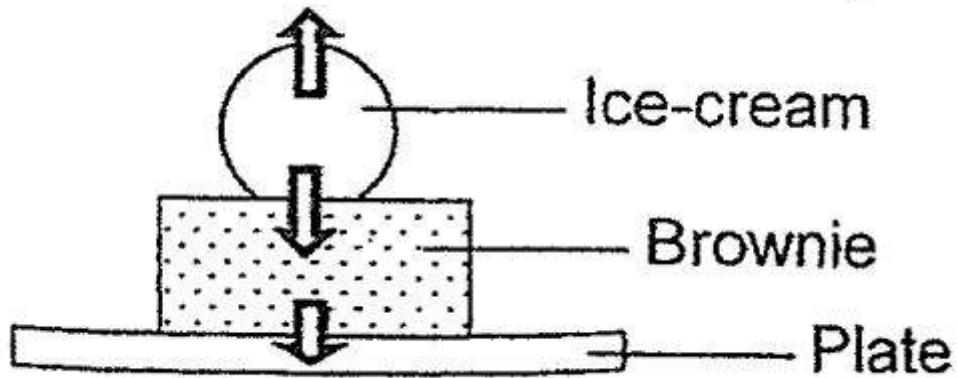
Material P	Material Q	Material R
Very good	Poor	Good
- D)

Material P	Material Q	Material R
Good	Very good	Poor

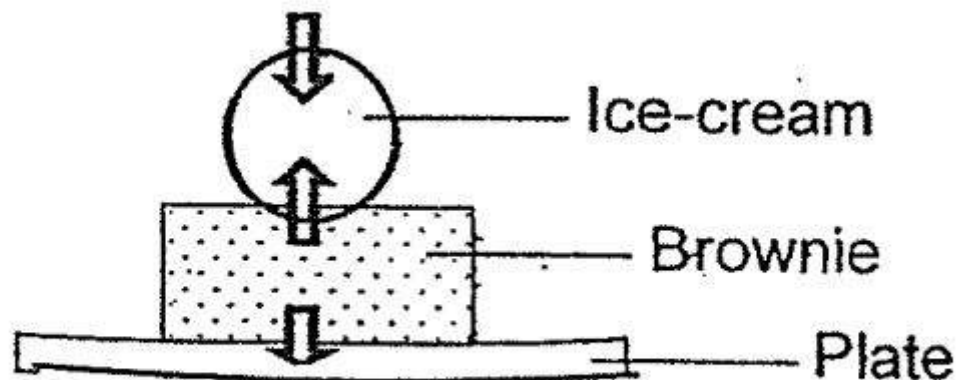
Mei Ling took out a piece of warm brownie from the oven and placed it on a plate. She then placed a scoop of ice-cream onto the brownie.

The arrows show the direction of heat flow. Which one of the following correctly shows how heat travels?

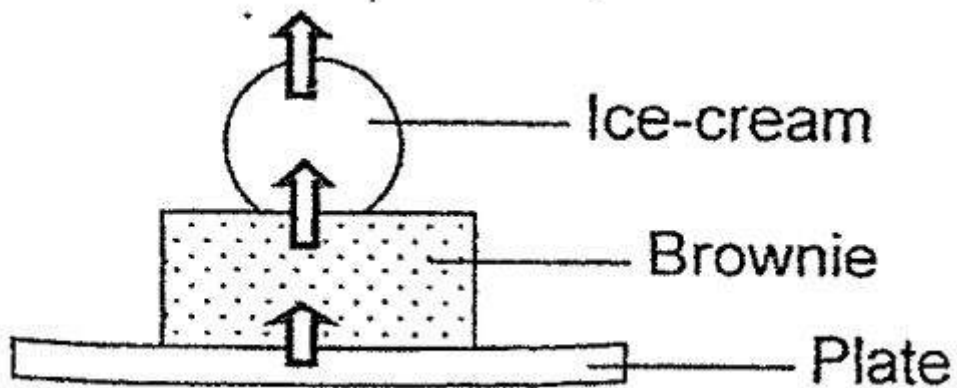
A)



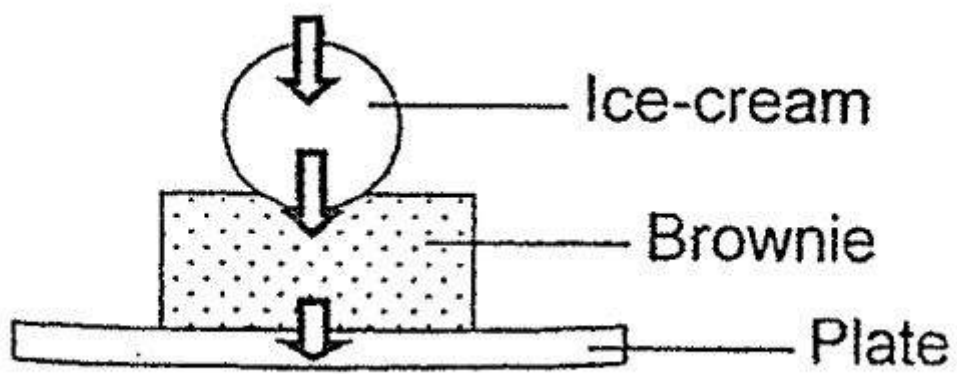
B)



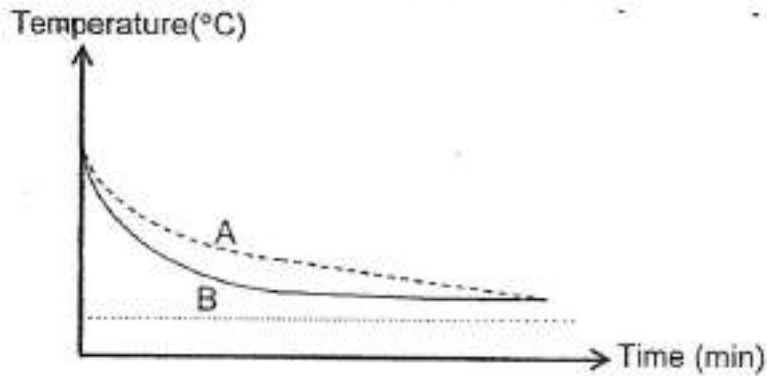
C)



D)

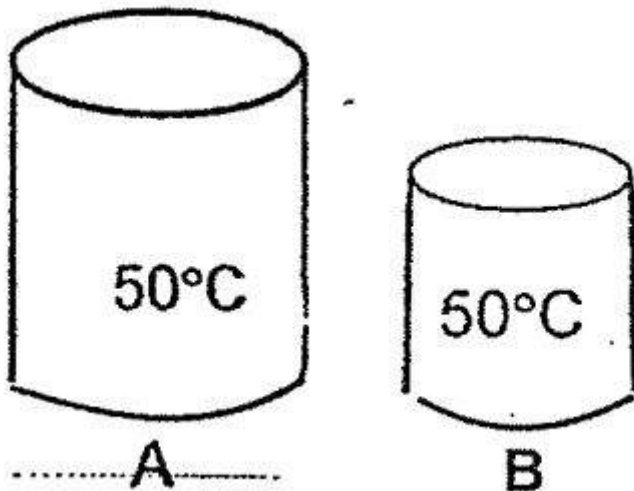


Linda conducted an experiment with 2 iron cylinders in the Science room. The graph below shows the rate of cooling of the cylinders.

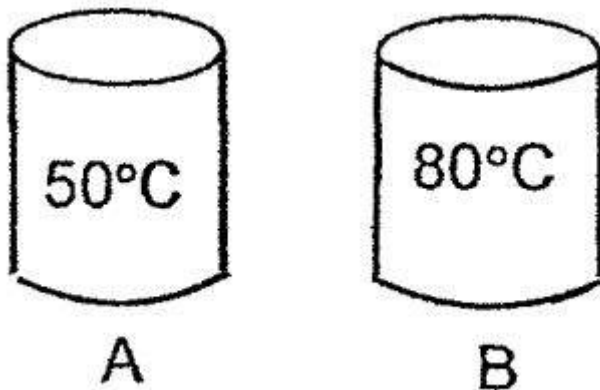


Which one of the pairs of cylinders correctly shows the ones used in Linda's experiment at the start?

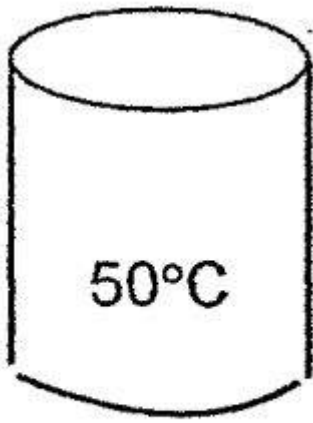
A)



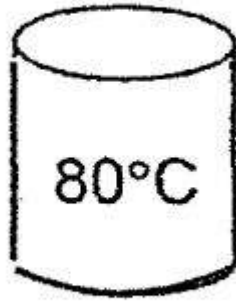
B)



C)

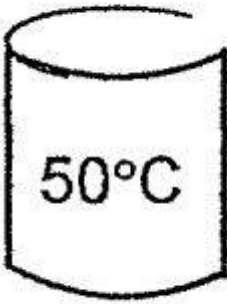


A

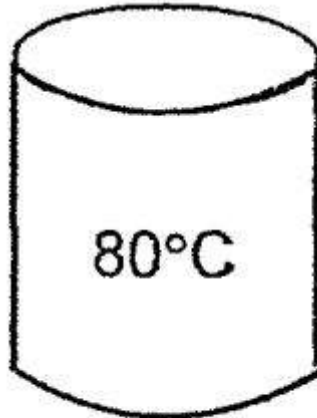


B

D)

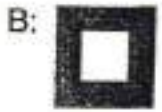


A



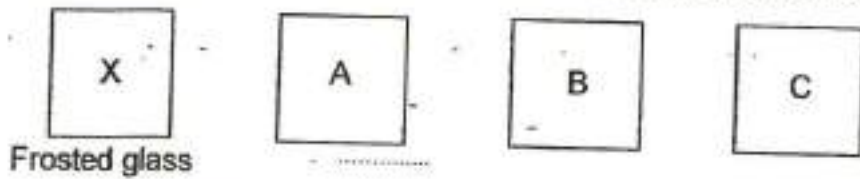
B

Which of the following are possible shadows cast by the wooden cubes below?



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

Seng Huat has 4 sheets made of different materials as shown below.



He first placed Sheet X in between a light source and a datalogger and observed that the amount of light detected by the datalogger was 200 units.



He then repeated the experiment by placing different sheets of materials, A, B and C between the light source and datalogger and recorded the results of his experiment as shown below.

Amount of light detected by datalogger (units)	Sheets used		
	A	B	C
	240	0	85

Which one of the following most likely shows the degree of transparency of each material?

- A)

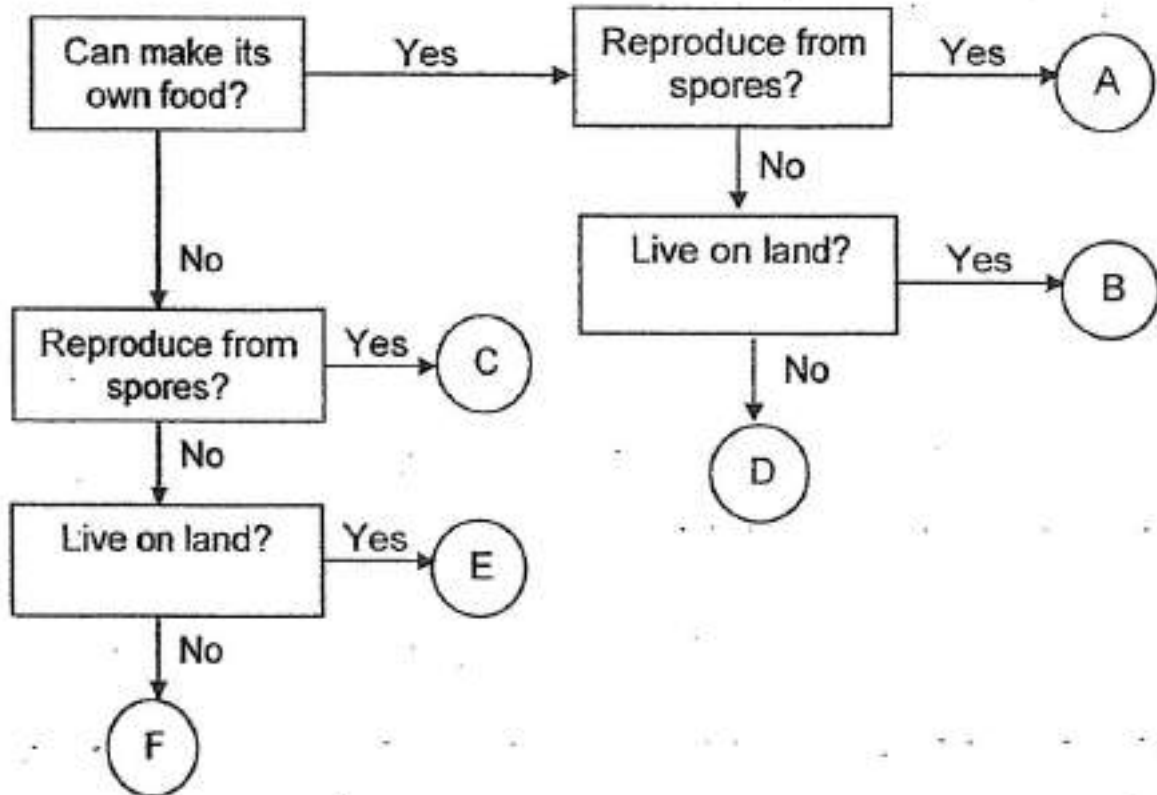
A	B	C
Transparent	Transparent	Opaque
- B)

A	B	C
Opaque	Translucent	Transparent
- C)

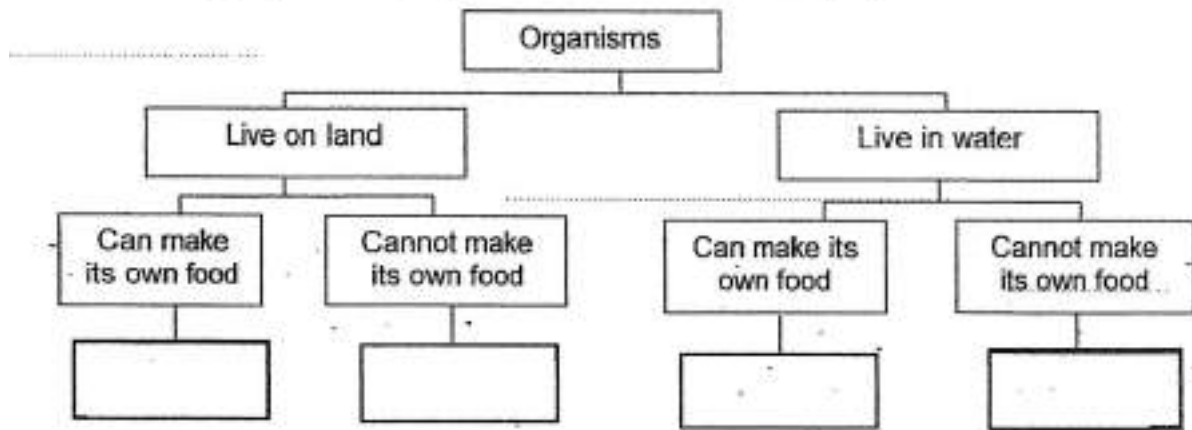
A	B	C
Translucent	Opaque	Opaque
- D)

A	B	C
Transparent	Opaque	Translucent

The flowchart below shows 6 organisms, A, B, C, D, E and F.



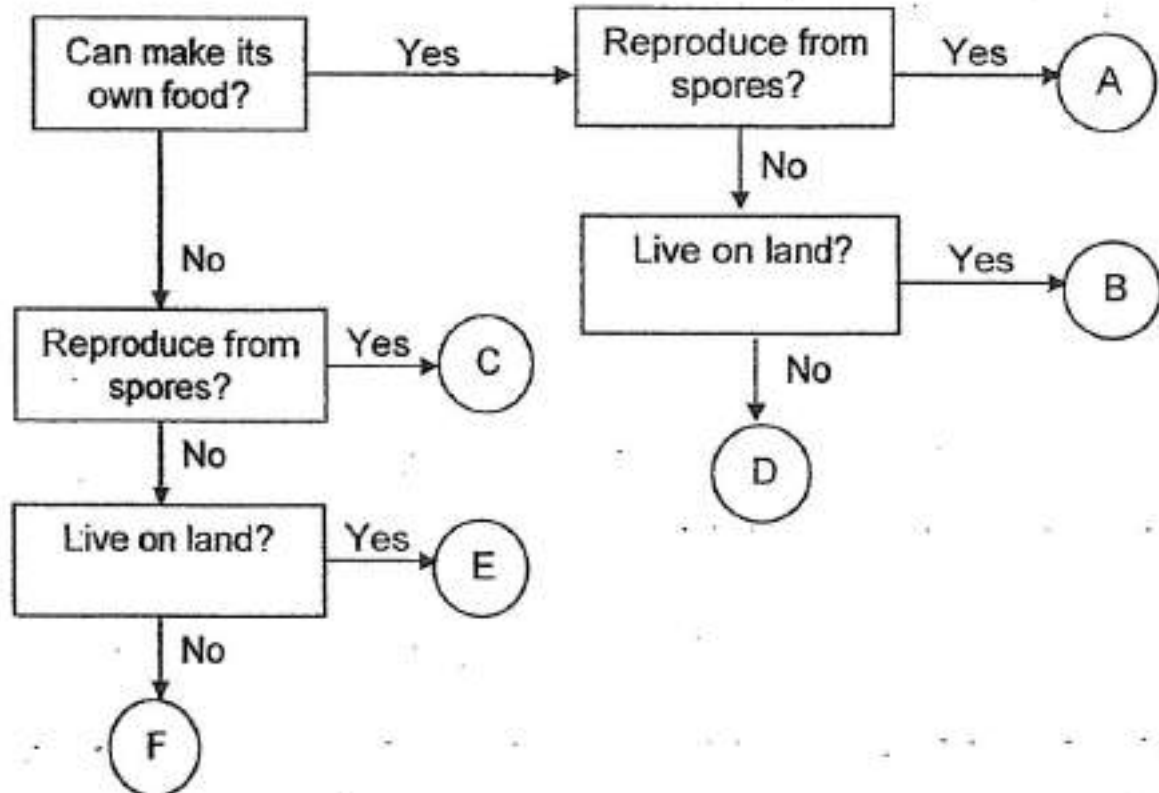
Classify Organisms B, D, E and F. in the chart below. (2m)



Match the options below:

- | | | |
|--------|-----------------------------------------|------|
| 1. [] | Live on Land: Can make its own food | A. F |
| 2. [] | Live on Land: Cannot make its own food | B. D |
| 3. [] | Live in Water: Can make its own food | C. B |
| 4. [] | Live in Water: Cannot make its own food | D. E |

The flowchart below shows 6 organisms, A, B, C, D, E and F.



Explain why Organisms A and C cannot be classified in the chart above. (1 mark)

This question 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.

Question 31 of 70

Primary 5 Science (Term 4)

1 pt

The table below shows the parts of Cells W, X, Y and Z.

Cell Parts	W	X	Y	Z
Cell Wall	✓	✓		
Cell Membrane	✓	✓	✓	✓
Cytoplasm	✓	✓	✓	✓
Nucleus	✓	✓	✓	
Chloroplast		✓		

Which of the cell/s above is/are plant cell/s? Explain your answer. (1 mark)

Question 32 of 70

Primary 5 Science (Term 4)

0 pts

The table below shows the parts of Cells W, X, Y and Z.

Cell Parts	W	X	Y	Z
Cell Wall	✓	✓		
Cell Membrane	✓	✓	✓	✓
Cytoplasm	✓	✓	✓	✓
Nucleus	✓	✓	✓	
Chloroplast		✓		

State 2 differences between Cell X and Cell Y. (1 mark)

This question 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 table below shows the parts of Cells W, X, Y and Z.

Cell Parts	W	X	Y	Z
Cell Wall	✓	✓		
Cell Membrane	✓	✓	✓	✓
Cytoplasm	✓	✓	✓	✓
Nucleus	✓	✓	✓	
Chloroplast		✓		

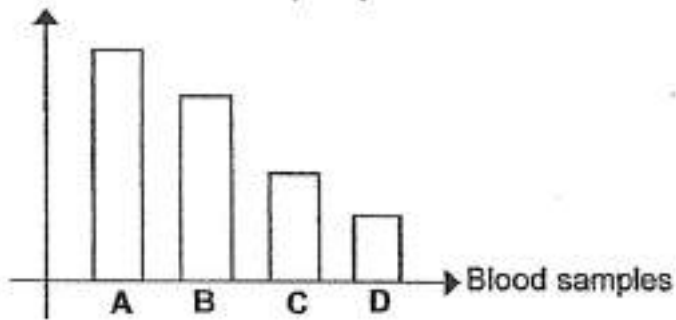
State what Cell Y can do but Cell Z cannot. (1 mark)

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

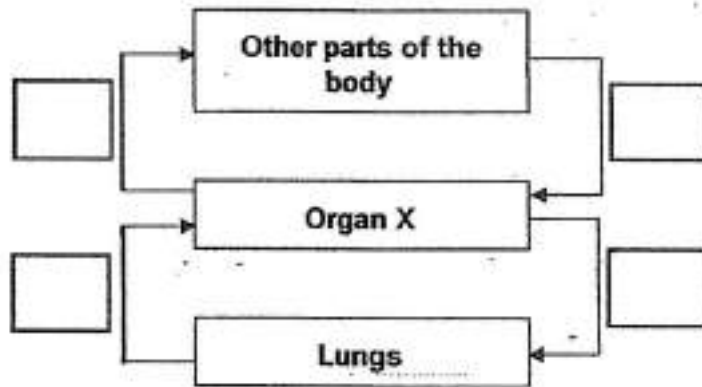
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

The graph below shows the concentration of carbon dioxide in 4 blood samples taken from different blood vessels in the human body.

Amount of carbon dioxide (units)



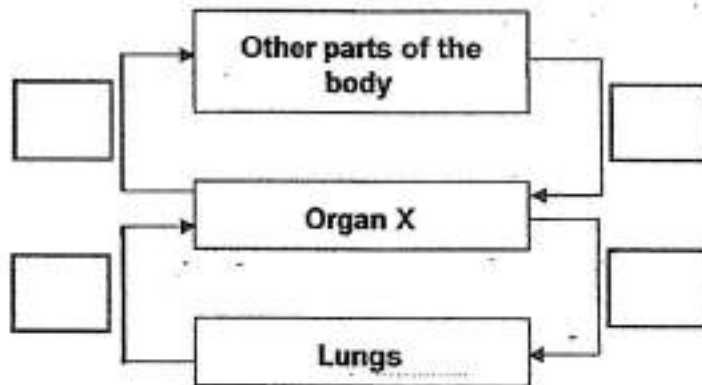
In the 4 boxes below, fill in A, B, C or D to indicate where the blood samples were taken from. (2m)



Match the options below:

-
- | | | |
|--------|-------------------------------------|------|
| 1. [] | Organ X --> Other parts of the body | A. C |
|--------|-------------------------------------|------|
-
- | | | |
|--------|-------------------------------------|------|
| 2. [] | Other parts of the body --> Organ X | B. D |
|--------|-------------------------------------|------|
-
- | | | |
|--------|-------------------|------|
| 3. [] | Organ X --> Lungs | C. A |
|--------|-------------------|------|
-
- | | | |
|--------|-------------------|------|
| 4. [] | Lungs --> Organ X | D. B |
|--------|-------------------|------|
-

In the 4 boxes below, fill in A, B, C or D to indicate where the blood samples were taken from. (2m)



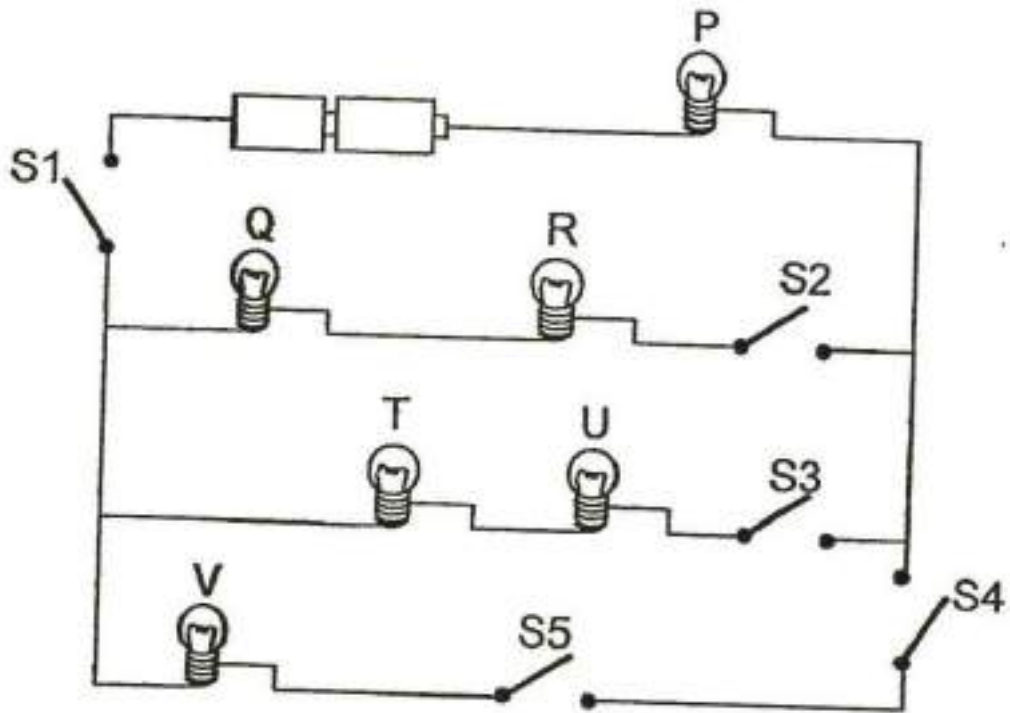
Name Organ X.

Explain why the air we breathe out is warmer than the air we breathe in. (1 mark)

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

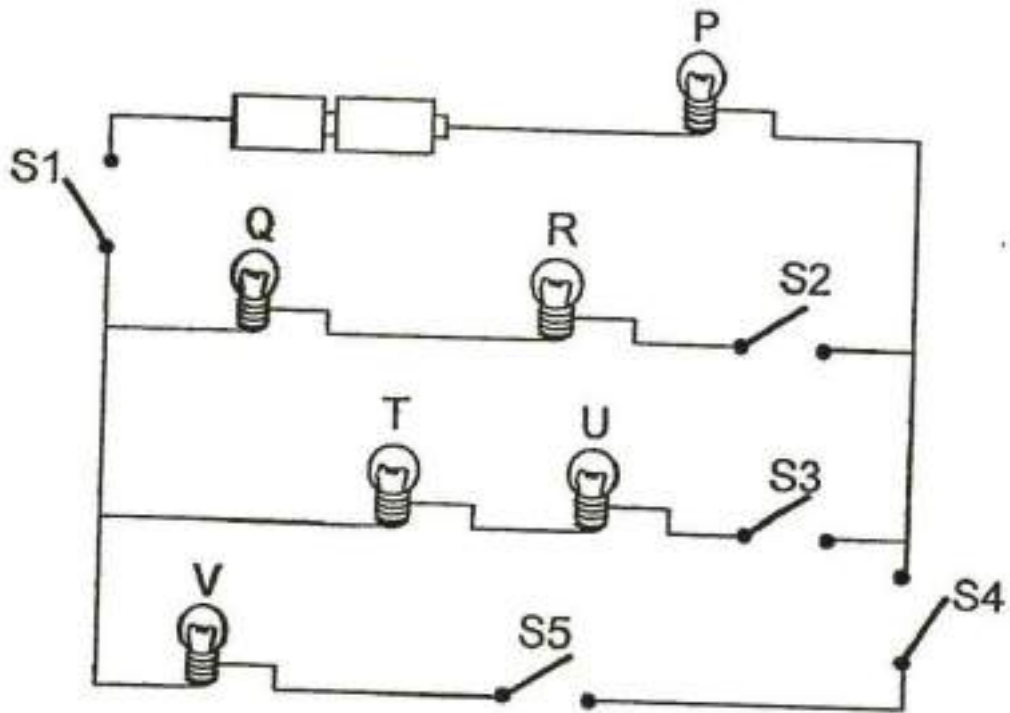
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Study the circuit below.



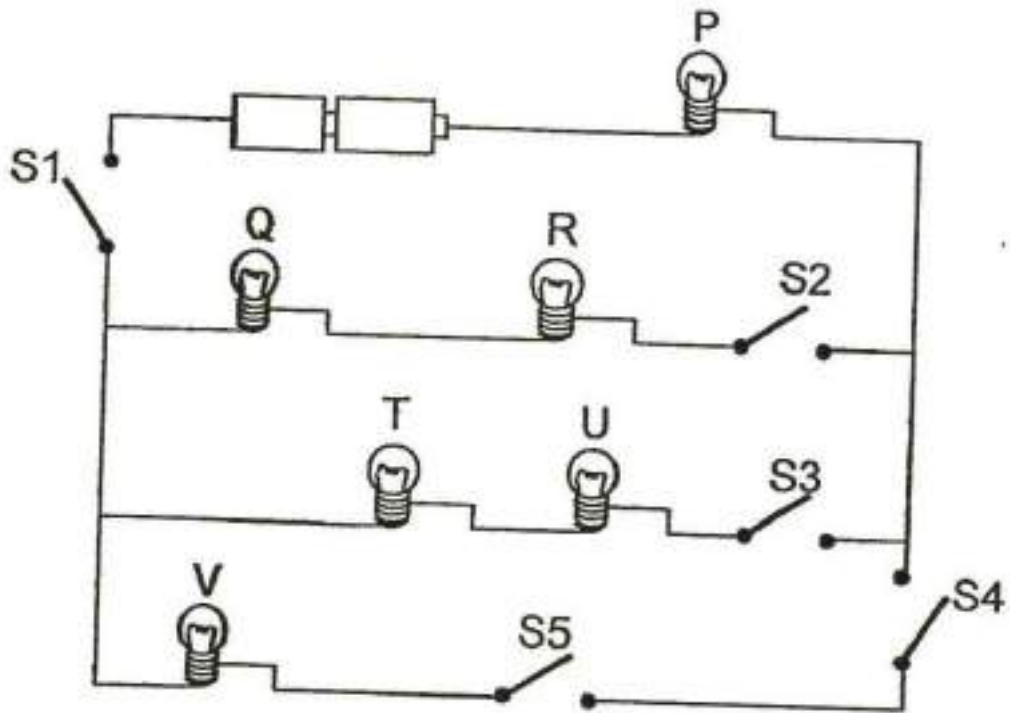
Which bulb/s will light up if only S1, S2 and S5 are closed? (1 mark)

Study the circuit below.



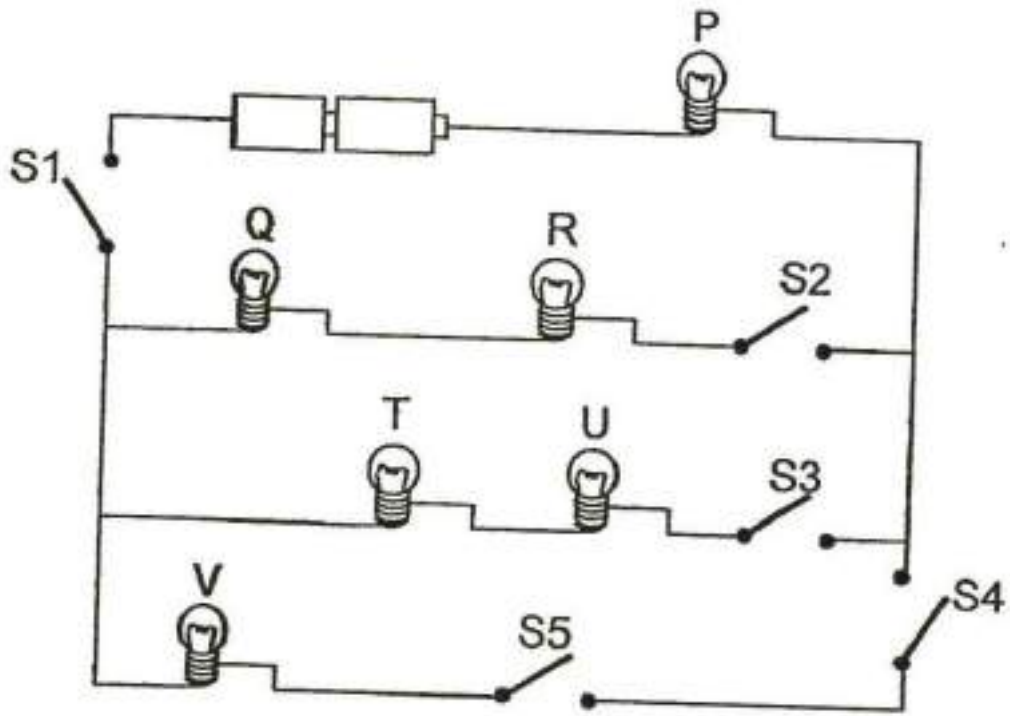
Which switch/es must be closed for Bulb T and Bulb U to light up? (1 mark)

Study the circuit below.



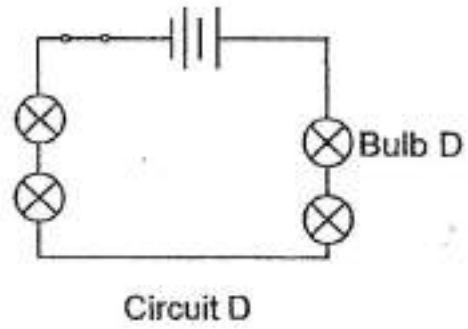
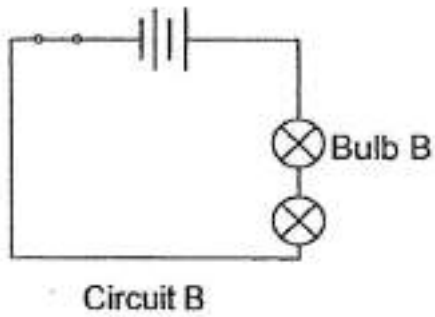
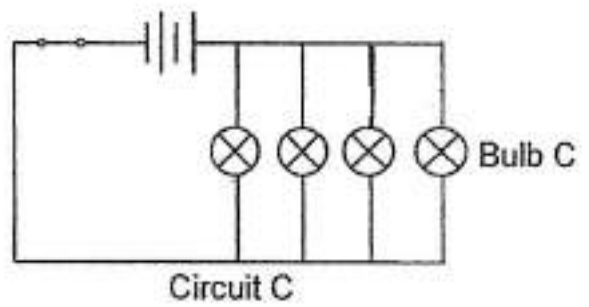
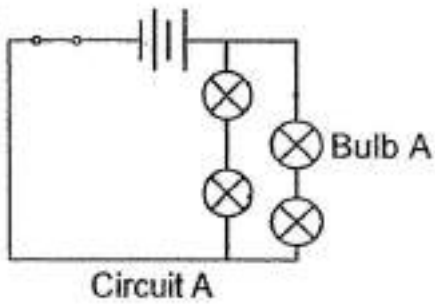
If all the switches are closed, which bulb when fused will cause all the other bulbs not to light up? (1 mark)

Study the circuit below.



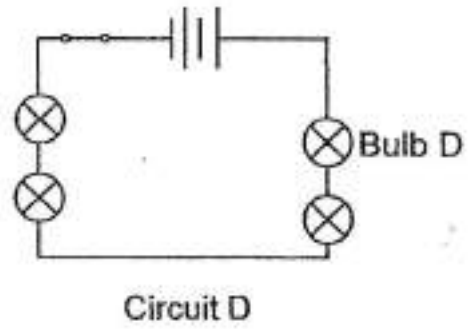
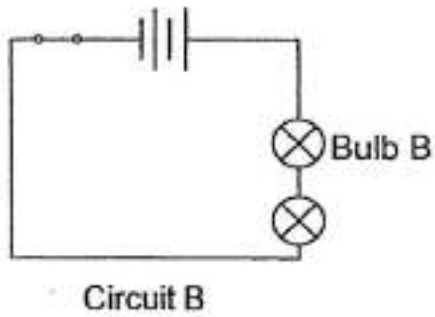
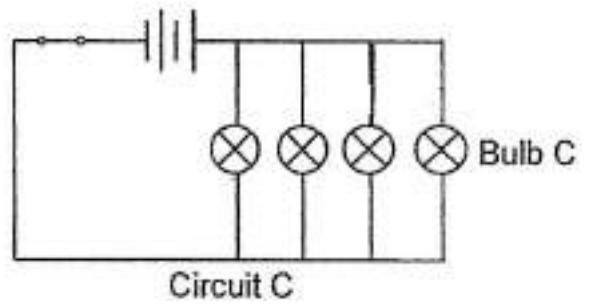
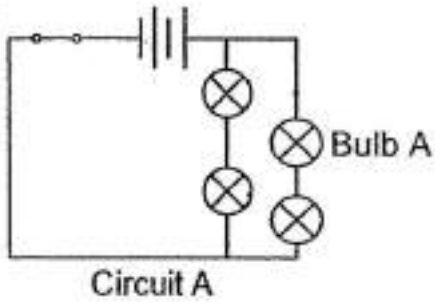
Which bulb/s will light up if Bulb R is fused and only S1, S2 and S3 are closed? (1 mark)

Raju formed Circuits A, B, C and D as shown below.



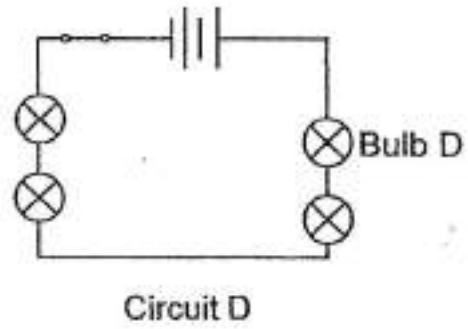
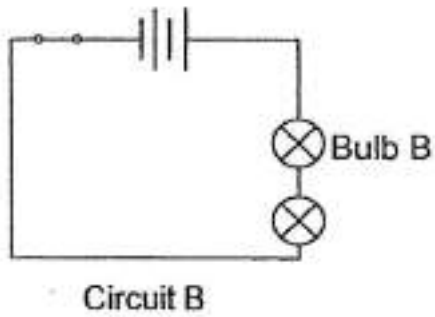
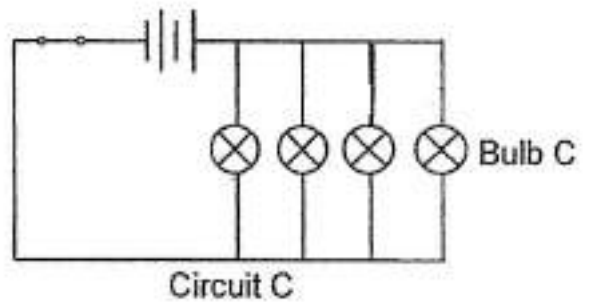
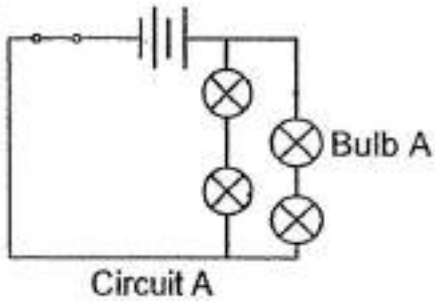
Which bulb will have the same brightness as Bulb A?

Raju formed Circuits A, B, C and D as shown below.



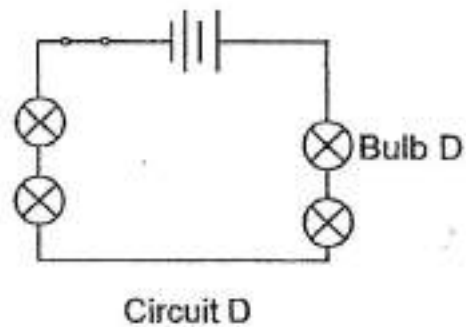
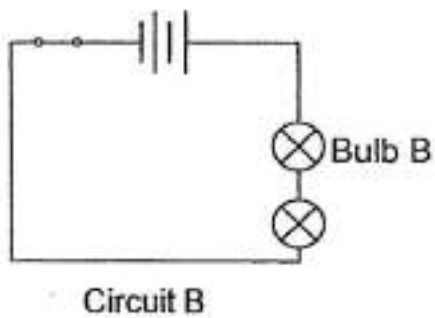
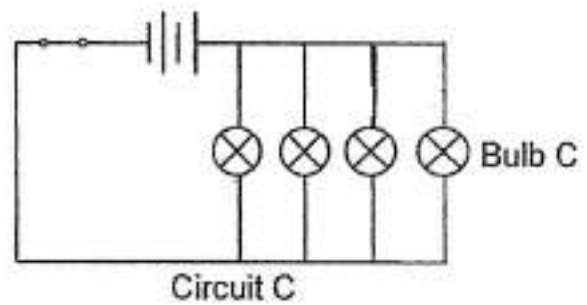
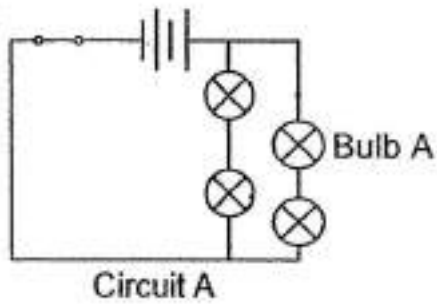
Which bulb will be dimmer than Bulb A?

Raju formed Circuits A, B, C and D as shown below.



Which bulb will be brighter than Bulb A?

Raju formed Circuits A, B, C and D as shown below.

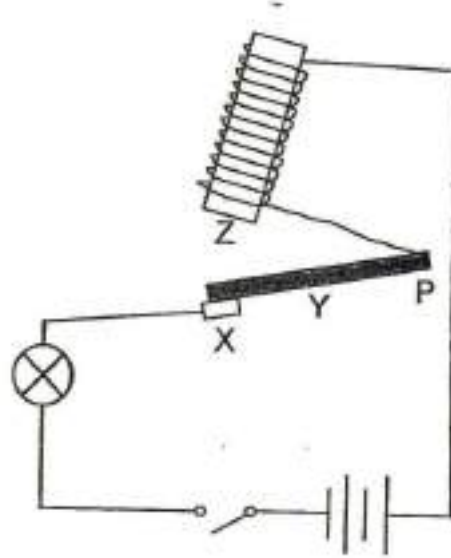


If Bulb D is fused, will the remaining bulbs in Circuit D still light up? Explain your answer. (1 mark)

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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.

Luke designed a circuit that produces blinking light. X, Y and Z are made of iron. X and Z are fixed. Y can be rotated at Point P. When Luke closed the switch, Y moved up and down between X and Z repeatedly.

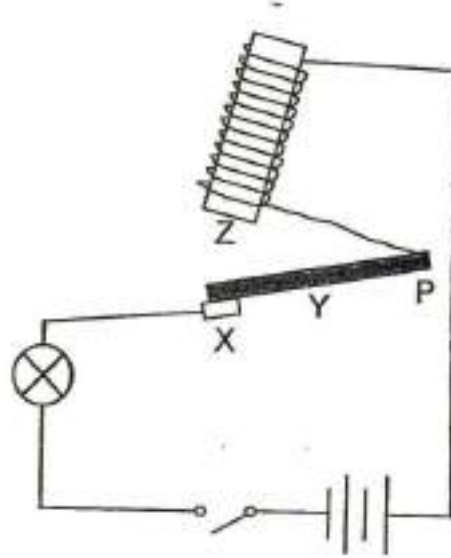


In the diagram, Y was touching X. Explain why the bulb lit up when the switch was closed. (1 mark)

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Luke designed a circuit that produces blinking light. X, Y and Z are made of iron. X and Z are fixed. Y can be rotated at Point P. When Luke closed the switch, Y moved up and down between X and Z repeatedly.

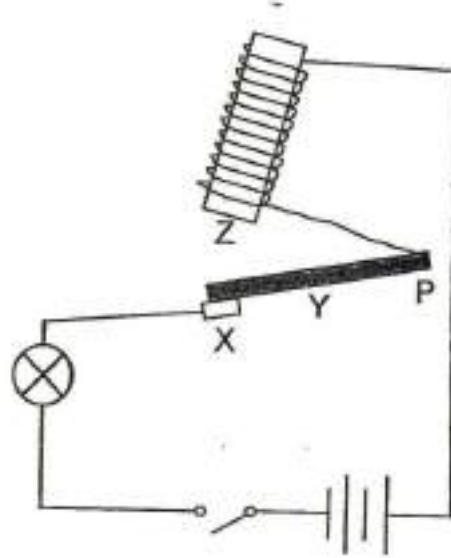


Explain why Y moved and touched Z when the switch was closed. (1 mark)

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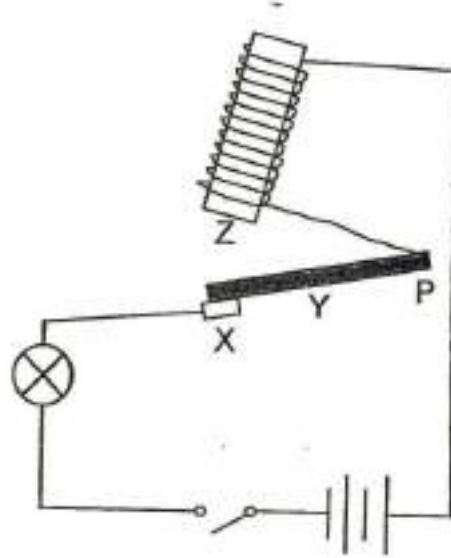


Explain what would happen after Y touched Z. (2 marks)

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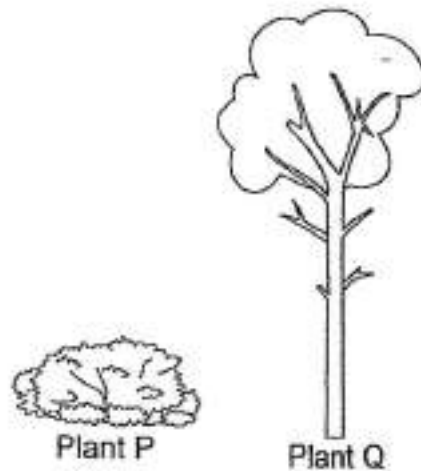


Will the circuit still produce blinking light if X is changed into aluminium? Explain your answer. (1 mark)

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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.

Anna observed Plant P and Plant Q as shown below.

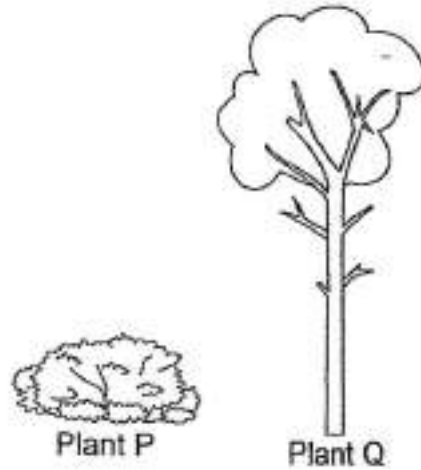


She recorded her observations of Plant P and Plant Q in the table below.

Plant	Characteristics of Plant	Characteristics of Seeds
P	Short	Seeds are light and have hooks
Q	Tall	Seeds have wing-like structures

State the method of seed dispersal for Plant P. (1 mark)

Anna observed Plant P and Plant Q as shown below.

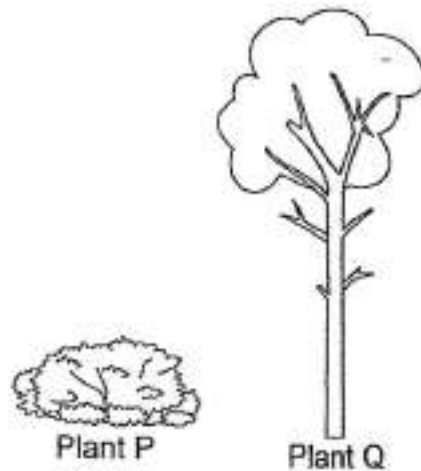


She recorded her observations of Plant P and Plant Q in the table below.

Plant	Characteristics of Plant	Characteristics of Seeds
P	Short	Seeds are light and have hooks
Q	Tall	Seeds have wing-like structures

State the method of seed dispersal for Plant Q.

Anna observed Plant P and Plant Q as shown below.



She recorded her observations of Plant P and Plant Q in the table below.

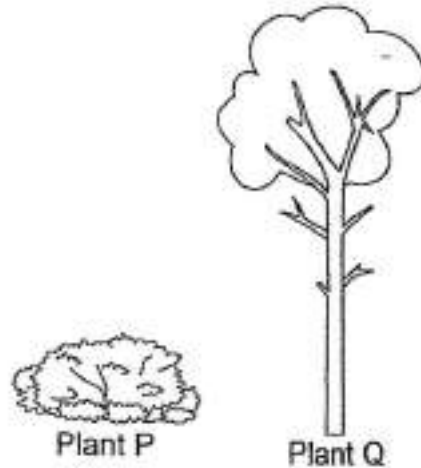
Plant	Characteristics of Plant	Characteristics of Seeds
P	Short	Seeds are light and have hooks
Q	Tall	Seeds have wing-like structures

List one advantage Plant Q has over Plant P if they are grown next to each other. (1 mark)

This question 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.

Anna observed Plant P and Plant Q as shown below.



She recorded her observations of Plant P and Plant Q in the table below.

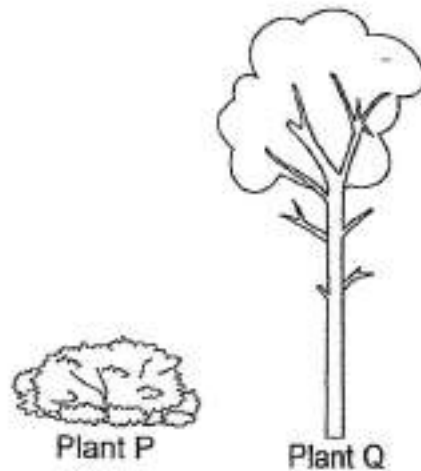
Plant	Characteristics of Plant	Characteristics of Seeds
P	Short	Seeds are light and have hooks
Q	Tall	Seeds have wing-like structures

Explain how it is an advantage for the seeds of Plant P to be grown next to each other. (1 mark)

This question 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.

Anna observed Plant P and Plant Q as shown below.



She recorded her observations of Plant P and Plant Q in the table below.

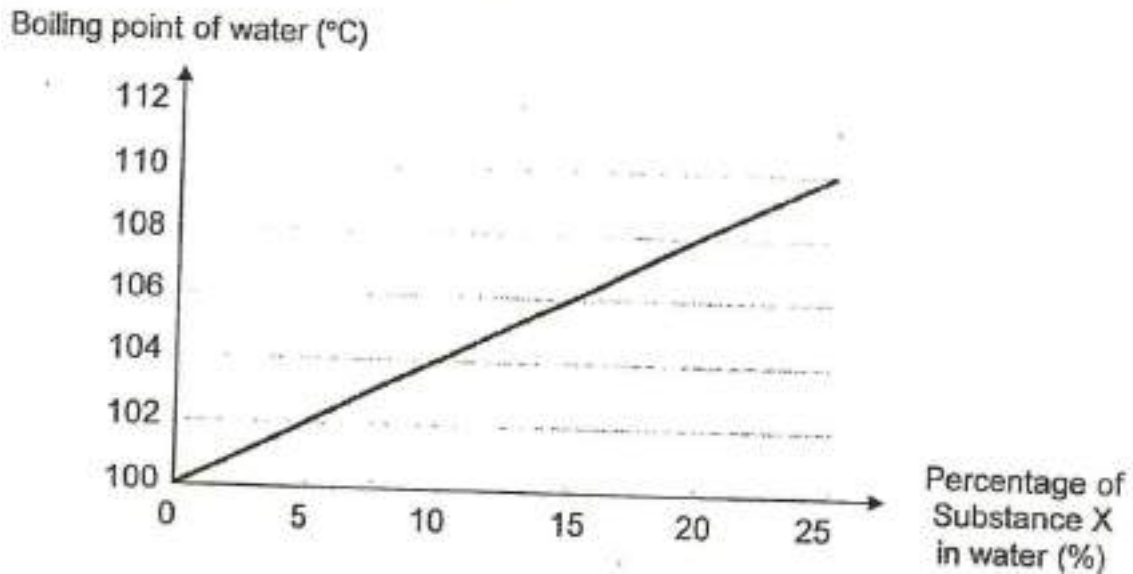
Plant	Characteristics of Plant	Characteristics of Seeds
P	Short	Seeds are light and have hooks
Q	Tall	Seeds have wing-like structures

Explain how it is an advantage for the seeds of Plant Q to be grown on a tall plant. (1 mark)

This question 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 graph below shows how the boiling point of water changes when different amounts of Substance X are added.

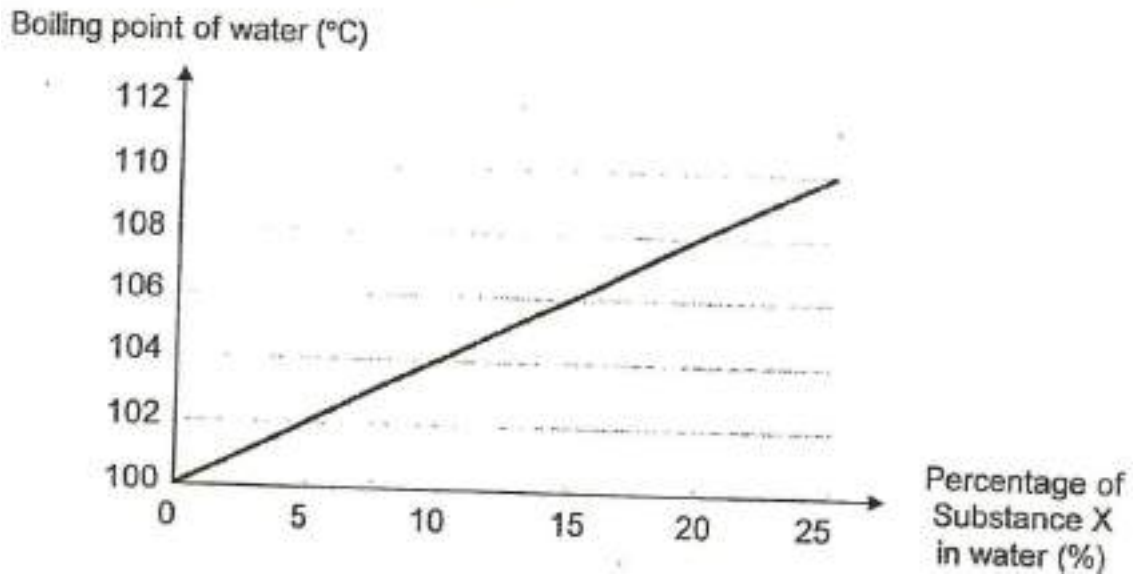


What is the relationship between the percentage of Substance X in water and the boiling point of water? (1 mark)

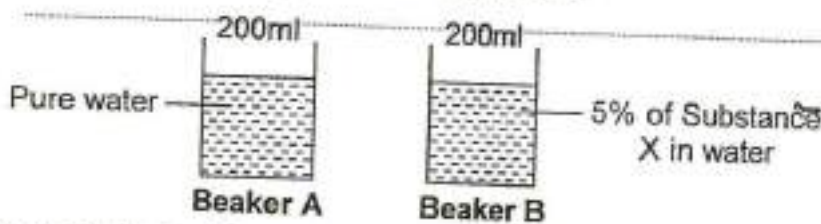
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

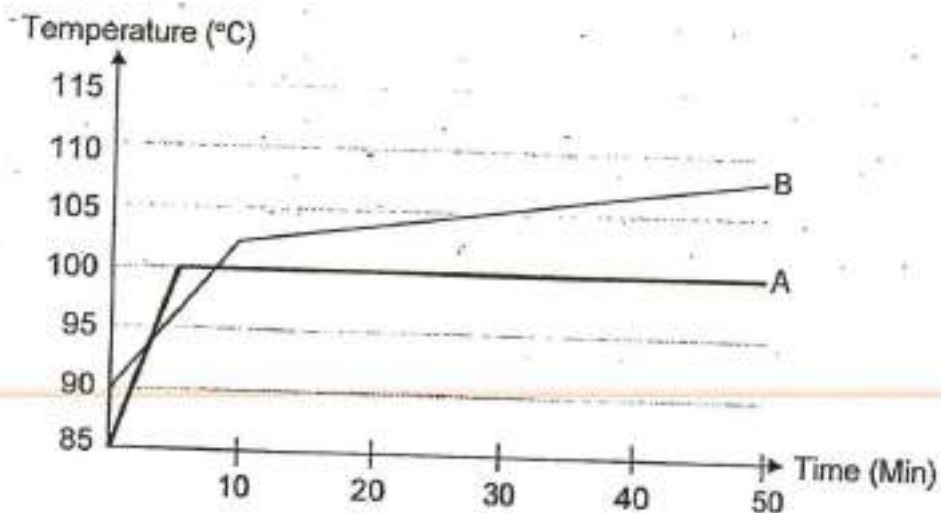
The graph below shows how the boiling point of water changes when different amounts of Substance X are added.



The diagram below shows glass beakers A and B.



Amin heated both beakers and recorded the temperature of water over a period of time.

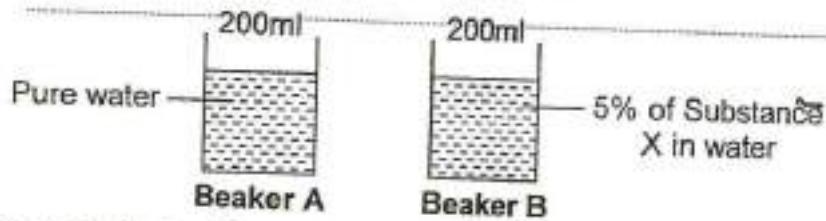


Amin noticed that the volume of water in both beakers was less than 200ml at the end of 50 minutes. Explain what caused this to happen. (1 mark)

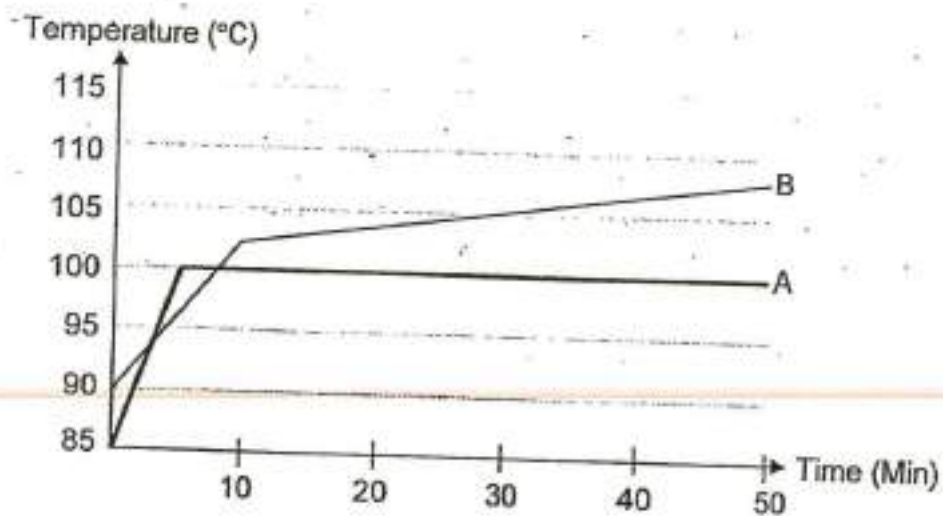
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 diagram below shows glass beakers A and B.



Amir heated both beakers and recorded the temperature of water over a period of time.

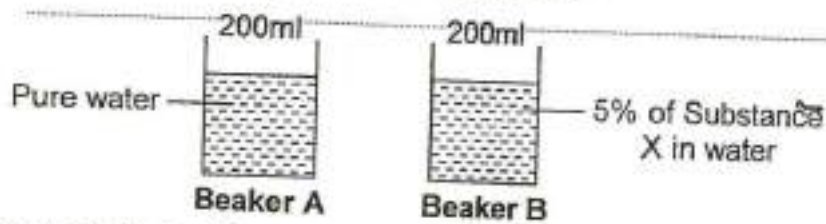


Explain why the temperature of the water in Beaker A remained the same after the 5th minute. (1 mark)

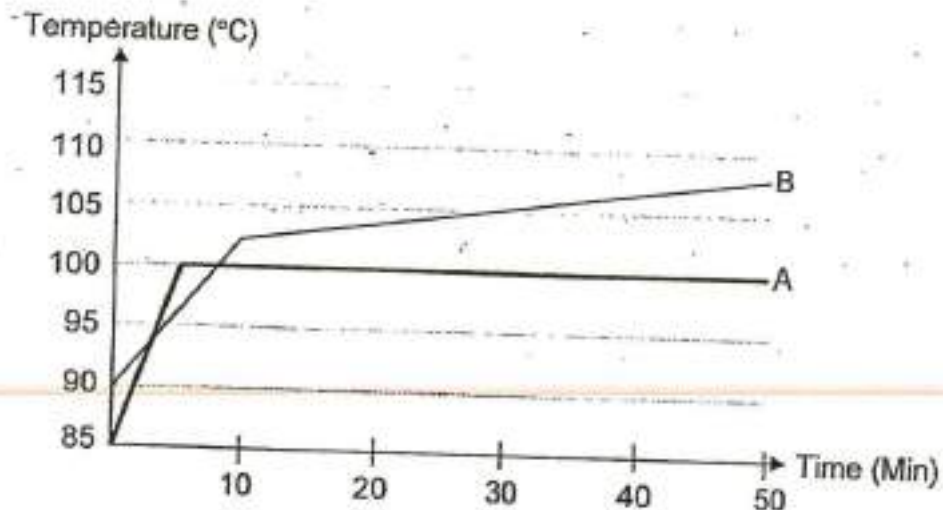
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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The diagram below shows glass beakers A and B.



Amin heated both beakers and recorded the temperature of water over a period of time.

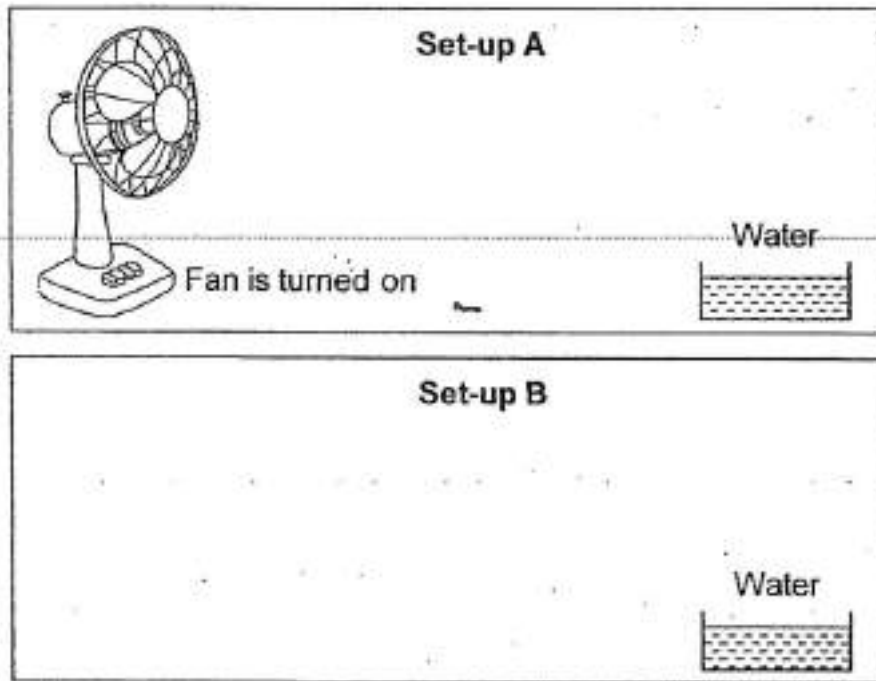


Based on the 2 graphs, explain why the temperature of water in Beaker B does not stay the same during boiling. (2 marks)

This question 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.

Mohan carried out an experiment as shown below. After 5 hours, he compared the amount of water left in each container.

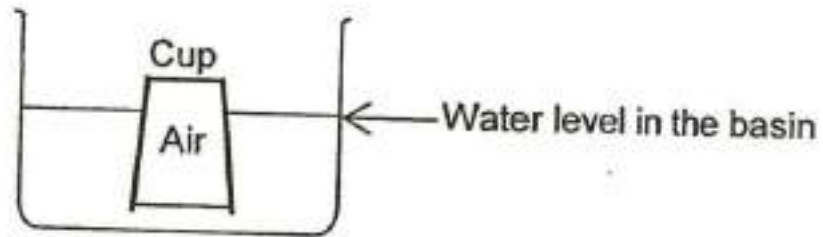


Which set-up would have more water left after 5 hours? Explain your answer. (2m)

This question 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.

A cup was inverted into a basin of water as shown below.

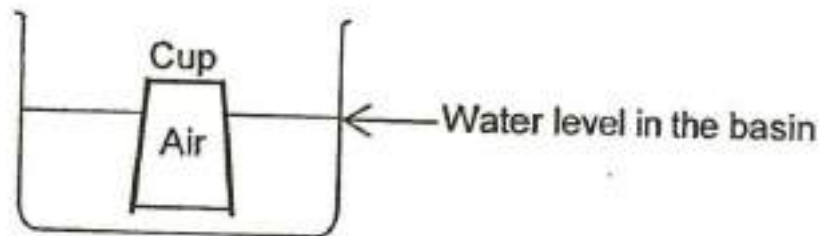


State the property of air which prevented water from entering the cup. (1 mark)

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

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A cup was inverted into a basin of water as shown below.

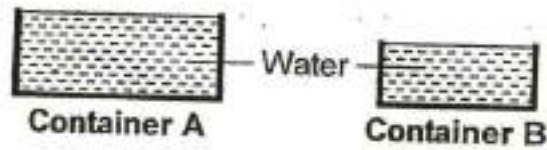


What will happen to the water level in the basin when the cup is removed from the water? (1 mark)

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

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Meihua found that it was easier to wash the food containers if she were to fill them with water half an hour before washing them. The diagram below shows the 2 containers Meihua had.

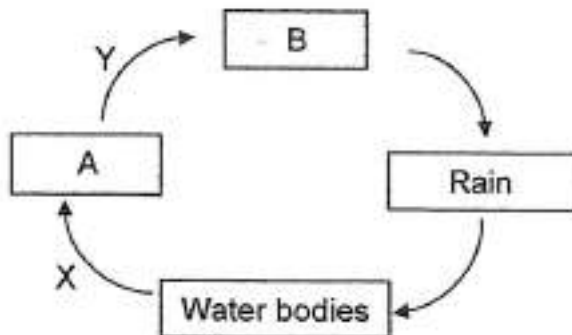


Meihua's mother told her that she should place Container B into Container A so that she can save water. Do you agree with Meihua's mother? Explain your answer. (2m)

This question 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 diagram below shows the water cycle.

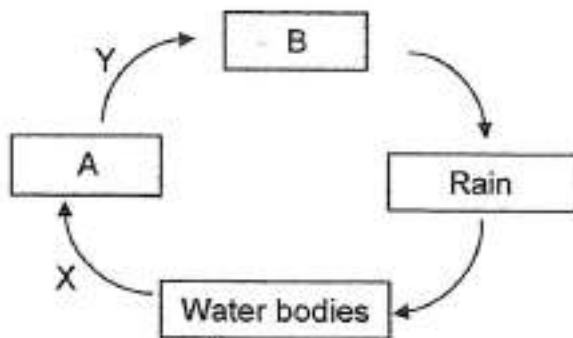


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

B represents water vapour.

- A) True
- B) False

The diagram below shows the water cycle.

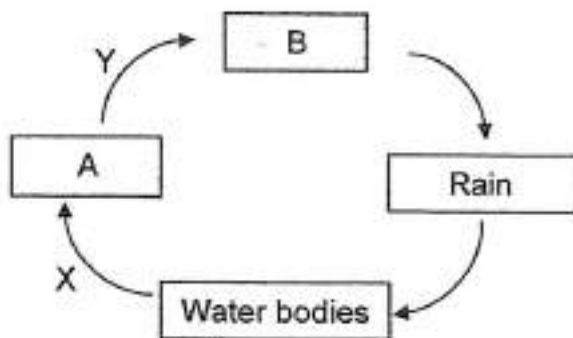


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

A represents water droplets.

- A) True
- B) False

The diagram below shows the water cycle.

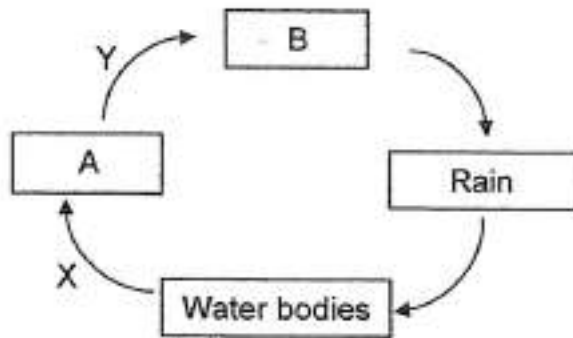


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

Process X represents evaporation.

- A) True
- B) False

The diagram below shows the water cycle.

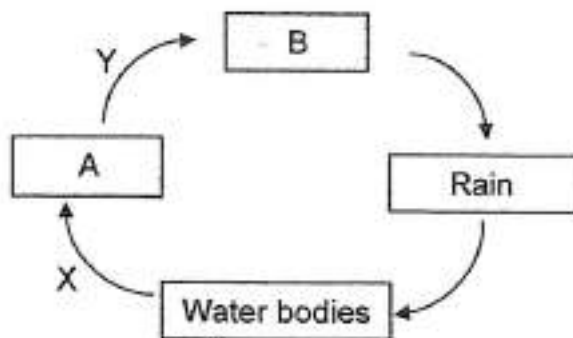


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

Water loses heat during Process X.

- A) True
- B) False

The diagram below shows the water cycle.

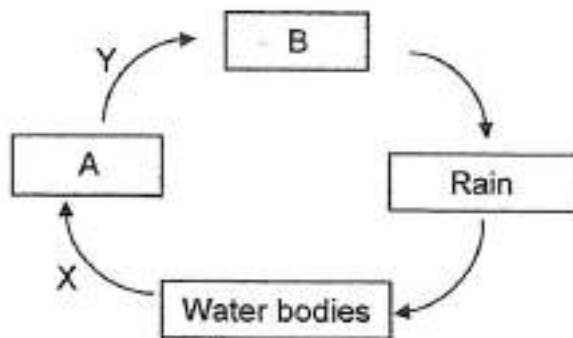


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

Process Y represents condensation.

- A) True
- B) False

The diagram below shows the water cycle.

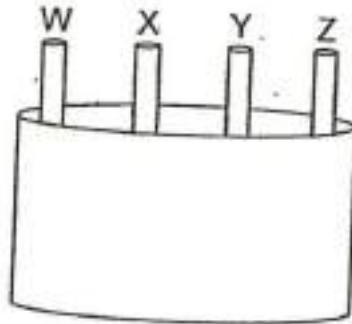


Based on the diagram above, put a tick (✓) in the appropriate column to indicate if each of the following statement is 'True' or 'False'. (3m)

Water gains heat during Process Y.

-
- A) True
- B) False

Deena placed 4 rods of different materials into a container of hot water for 15 minutes. The lengths of the 4 rods were recorded in the table below.



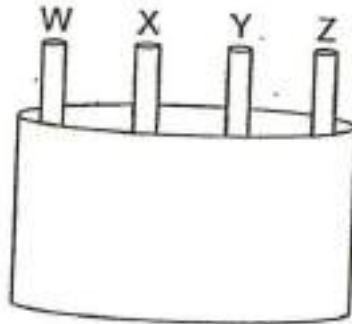
Material	Length of rods at the start of the experiment (cm)	Length of rods after 15 minutes (cm)	Temperature of rods after 15 minutes (°C)
W	20	20.2	90
X	20	20.5	100
Y	20	21.3	80
Z	20	20.8	90

Why did Deena use rods of the same length? (1 mark)

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

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Deena placed 4 rods of different materials into a container of hot water for 15 minutes. The lengths of the 4 rods were recorded in the table below.



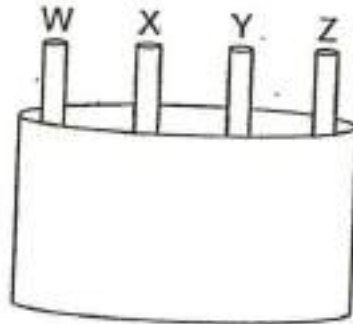
Material	Length of rods at the start of the experiment (cm)	Length of rods after 15 minutes (cm)	Temperature of rods after 15 minutes (°C)
W	20	20.2	90
X	20	20.5	100
Y	20	21.3	80
Z	20	20.8	90

Based on the results of the experiment, Deena concluded that the best conductor of heat will be the longest after 15 minutes. Explain why her conclusion was wrong. (1 mark)

This question 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.

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Deena had 2 disc made of Material W and Material Z as shown below.



Material W



Material Z

Which disc, W or Z will be a bigger disc when heated? Explain your answer. (1m)

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

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