Test: Primary 5 Science (Term 2) - Maris Stella (2020)

Points: 37 points

Name: _____ **Score:** _____

Date: _____

Signature: _____

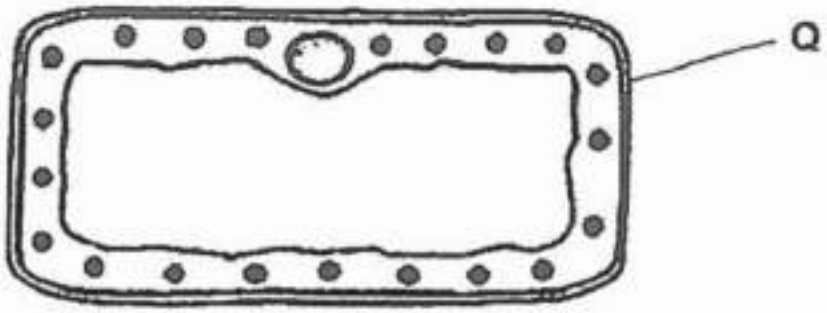
Select multiple choice answers with a cross or tick:

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

Question 1 of 32

Primary 5 Science (Term 2) 2 pts

The diagram below shows a leaf cell.



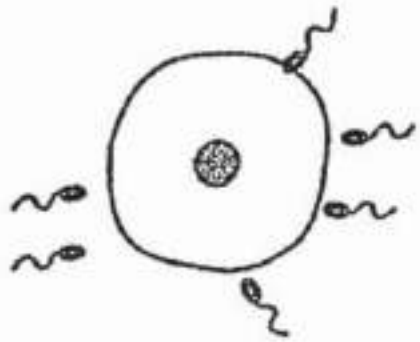
What is the function of Q?

- ○ **A)** gives the cell a fixed shape.
- ○ **B)** contains genetic information
- ○ **C)** controls all activities in the cell
- ○ **D)** controls substances moving in and out of the cell

Question 2 of 32

Primary 5 Science (Term 2) 2 pts

The diagram below shows cells during a process in the reproduction of human.



What is the process shown in the above diagram?

- **A)** pollination
- **B)** fertilisation
- **C)** cell division
- **D)** germination

Question 3 of 32

Primary 5 Science (Term 2) 2 pts

Which of the following is the unit of life for a tree and human?

- **A)**

Tree	Human
cell	cell

- **B)**

Tree	Human
nucleus	nucleus

- **C)**

Tree	Human
cell wall	cell membrane

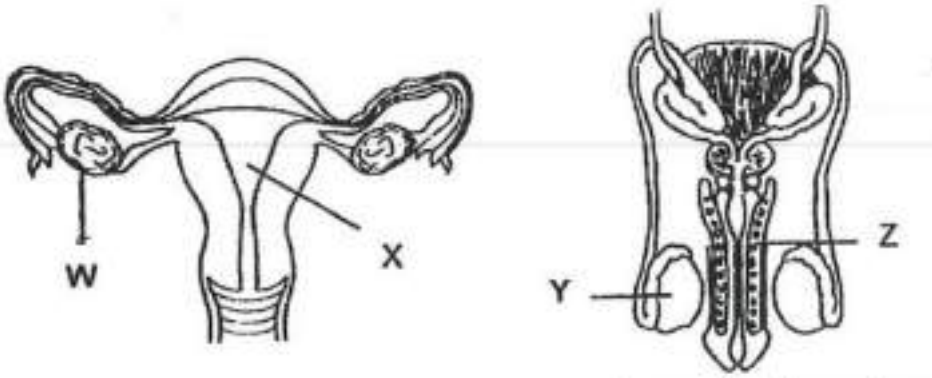
- **D)**

Tree	Human
chloroplast	nucleus

Question 4 of 32

Primary 5 Science (Term 2) 2 pts

The diagrams below show both the female and male human reproductive systems.



female reproductive system male reproductive system

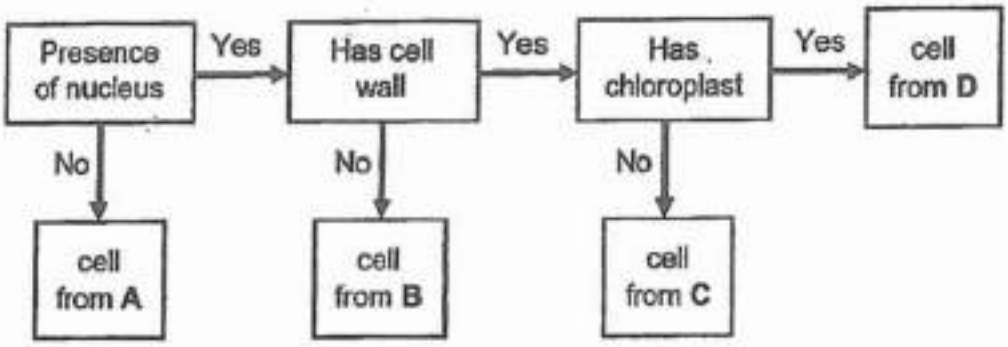
Which of the following parts produce reproductive cells?

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

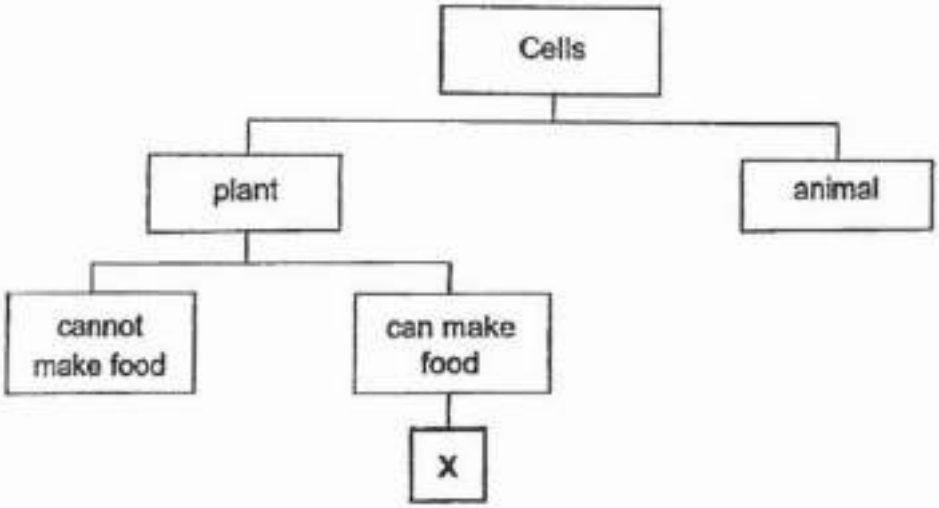
Question 5 of 32

Primary 5 Science (Term 2) 2 pts

Fatimah examined some cells from organisms A, B, C and D under a microscope and recorded her observations in the chart below.



She then examined cell X and classified it as shown below.



From which organism, A, B, C or D, is cell X most likely taken from?

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

Question 6 of 32

Primary 5 Science (Term 2) 2 pts

Teck Long made some statements about reproduction in humans and flowering plants.

A The fertilised egg is found in the ovary.
B Fertilisation occurs in a female reproductive part.
C Male reproductive cells are formed in the anthers.

Which of the following is correct?

A)

Plants	Humans
B	A and B

B)

Plants	Humans
A and C	B

C)

Plants	Humans
A, B, C	A

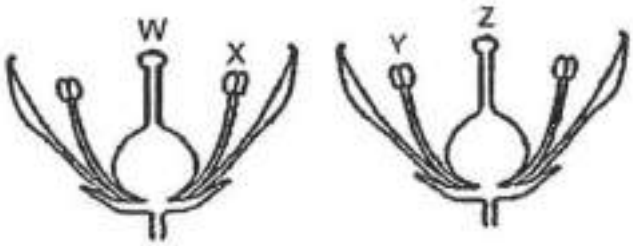
D)

Plants	Humans
A, B, C	B

Question 7 of 32

Primary 5 Science (Term 2) 2 pts

The diagram shows two flowers from the same plant.

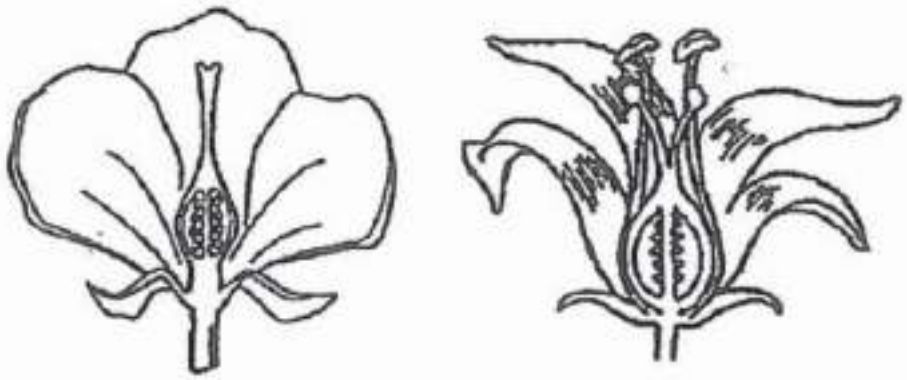


Pollination between the two flowers occurs when pollen grains are transferred from _____.

A) W to Y
B) W to Z
C) X to Y
D) X to Z

Question 8 of 32 Primary 5 Science (Term 2) 2 pts

Two flowers, M and N, are shown.



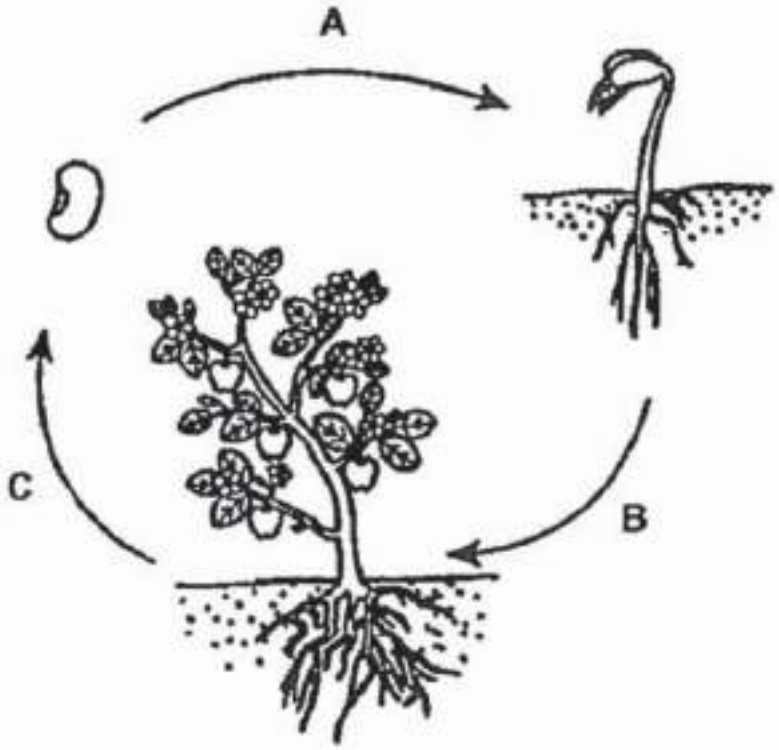
Flower M Flower N

Which of the following is correct about flowers M and N?

- **A)** Both flowers have anthers.
- **B)** Only flower N can be pollinated.
- **C)** Both flowers can develop into fruits.
- **D)** Flower M only has male reproductive parts.

Question 9 of 32 Primary 5 Science (Term 2) 2 pts

The arrows in the diagram below represent different processes.



What do arrows A, B and C represent?

A)

A	B	C
dispersal	fertilisation	pollination

B)

A	B	C
germination	fertilisation	dispersal

C)

A	B	C
dispersal	germination	fertilisation

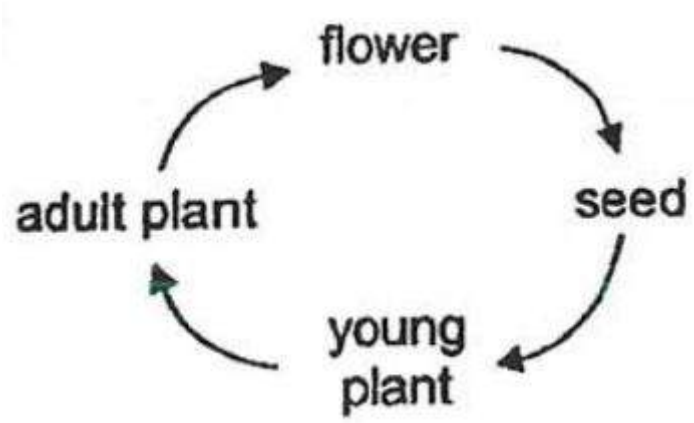
D)

A	B	C
germination	pollination	fertilisation

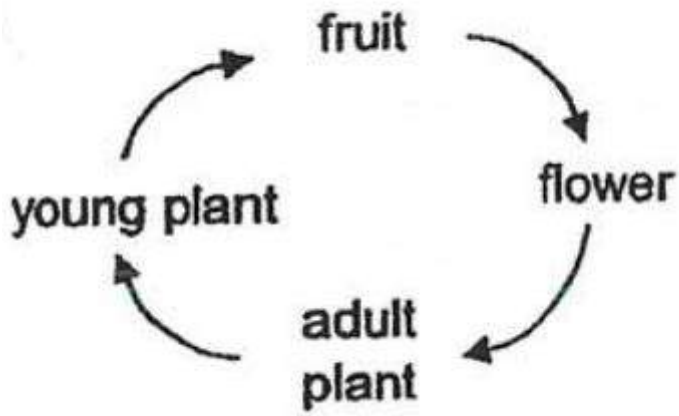
Question 10 of 32 Primary 5 Science (Term 2) 2 pts

Which one of the following correctly shows the stages involved in the development of a flowering plant?

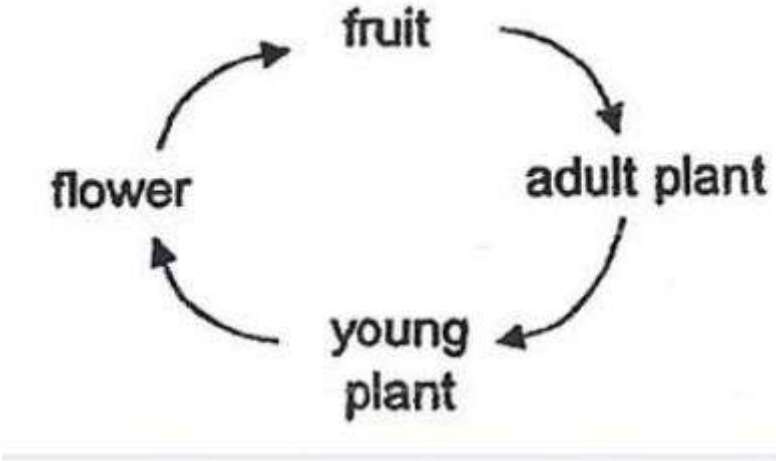
A)



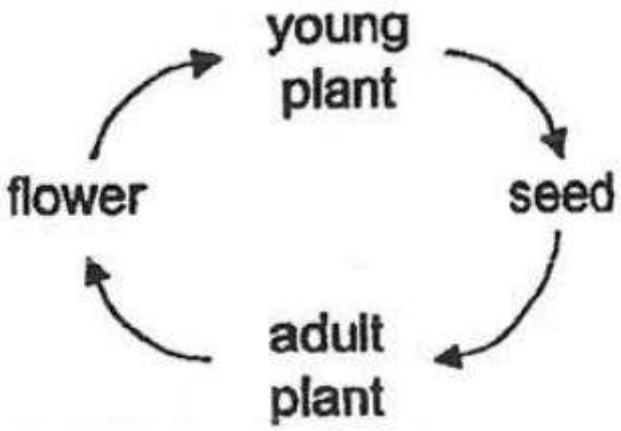
B)



C)



D)



Question 11 of 32 Primary 5 Science (Term 2) 2 pts

Study the table below.

Cell parts	Cell		
	X	Y	Z
nucleus	✓	✓	✓
cell wall	✓	✓	
cell membrane	✓	✓	✓
chloroplasts	✓		

Key

✓ : present

Which of the following is correct?

A)

Plant Cell	Animal Cell
X	Y and Z

B)

Plant Cell	Animal Cell
X and Z	Y

C)

Plant Cell	Animal Cell
X and Y	Z

D)

Plant Cell	Animal Cell
Y and Z	X

Question 12 of 32

Primary 5 Science (Term 2) 2 pts

The table below shows the melting point and boiling point of substances T and U.

Substance	Melting Point (°C)	Boiling Point (°C)
T	20	290
U	4	170

Which of the following shows the correct state of substances T and U at 200°C?

A)

Substance T	Substance U
solid	liquid

B)

Substance T	Substance U
liquid	solid

C)

Substance T	Substance U
liquid	gaseous

D)

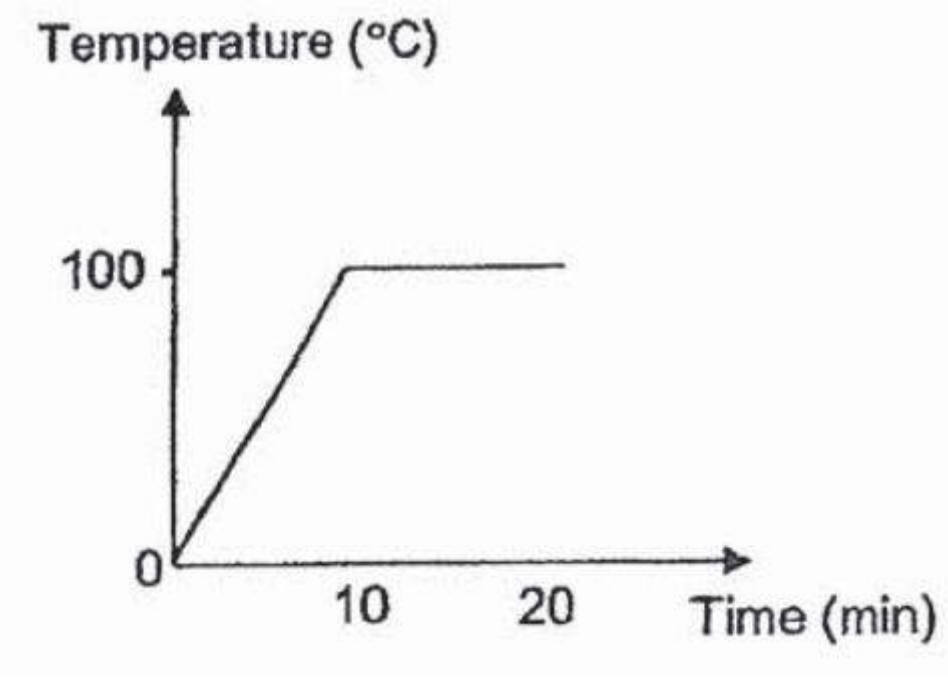
Substance T	Substance U
gaseous	solid

Question 13 of 32 Primary 5 Science (Term 2) 2 pts

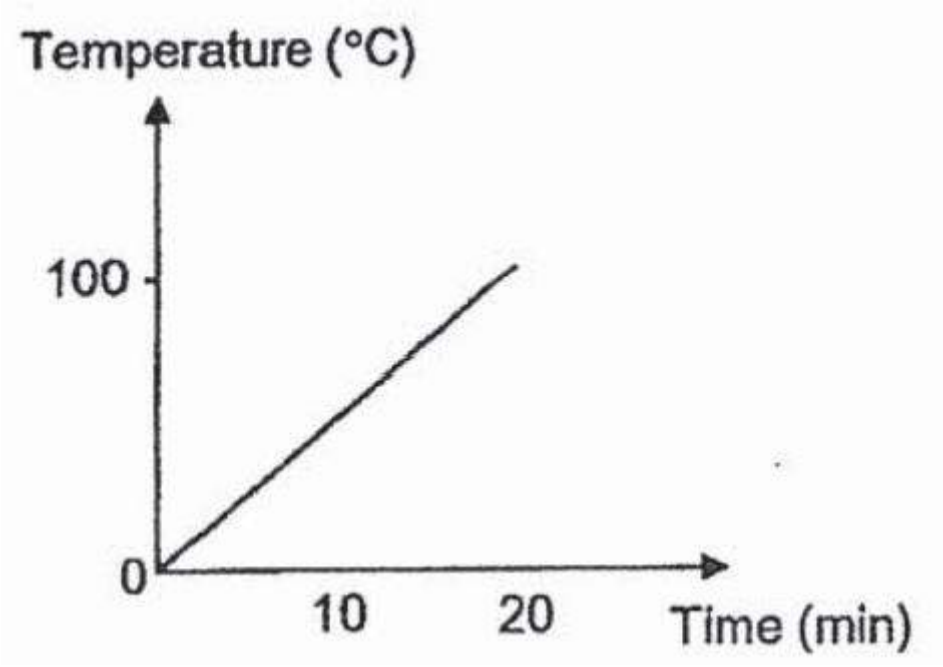
Ryan heated a beaker of tap water. After 10 minutes, he observed that the water had started to boil. He continued to heat the water for another 10 minutes.

Which one of the following graphs correctly shows the change in temperature of water?

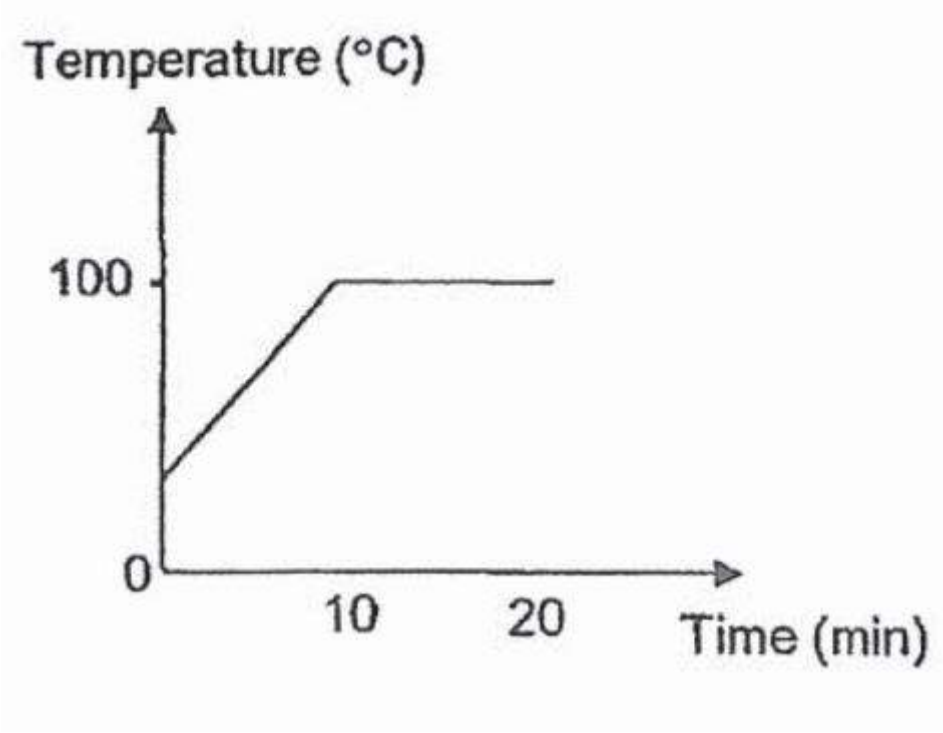
A)



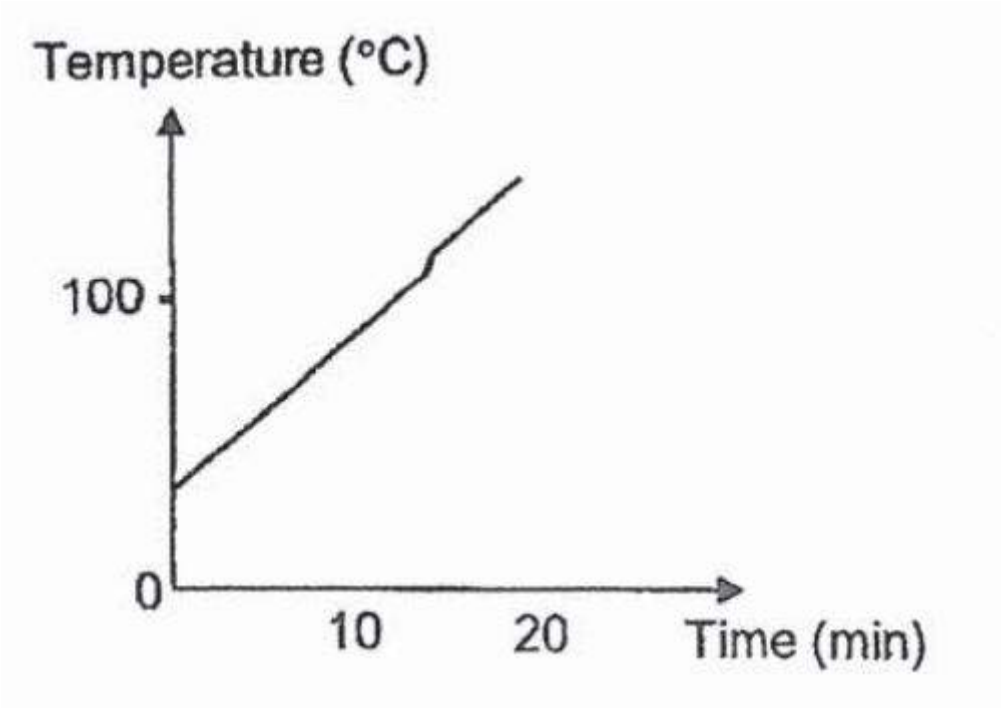
B)



C)


Temperature (°C)
100
0
10
20
Time (min)

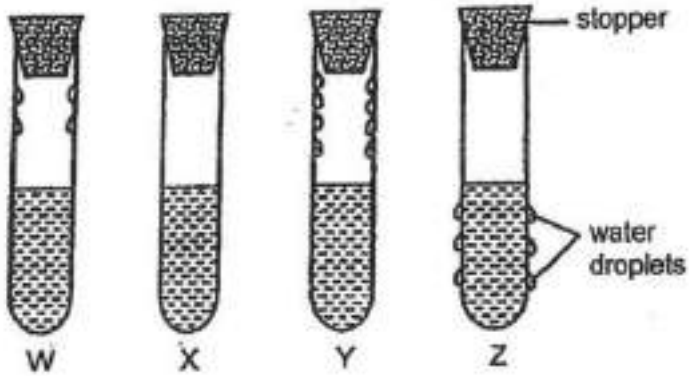
D)


Temperature (°C)
100
0
10
20
Time (min)

Question 14 of 32

Primary 5 Science (Term 2) 2 pts

Aminah filled four identical test tubes with the same amount of water at different temperatures. She then covered each test tube with a stopper. The diagrams below show what she observed after some time.



Which of the following correctly shows the temperature of the water in the test tubes, starting from the lowest to the highest temperature?

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

Question 15 of 32

Primary 5 Science (Term 2) 2 pts

Jun Yang wants to investigate the factors affecting the rate of evaporation of water. He prepared four set-ups using identical beakers as shown in the table below.

	Set-ups			
	P	Q	R	S
Temperature (°C)	30	30	25	25
Exposed surface area of water (cm^2)	50	120	50	120
Volume of water (cm^3)	500	500	500	400

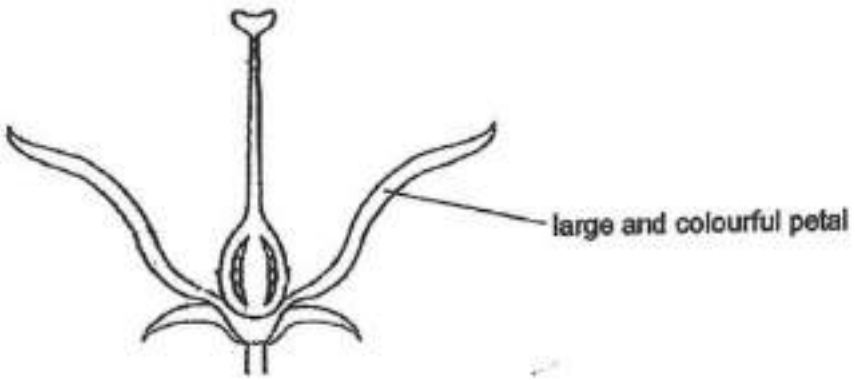
Which two set-ups should Jun Yang use to find out if the surrounding temperature affects rate of evaporation?

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

Question 16 of 32

Primary 5 Science (Term 2) 1 pt

The flower below has two reproductive parts removed.



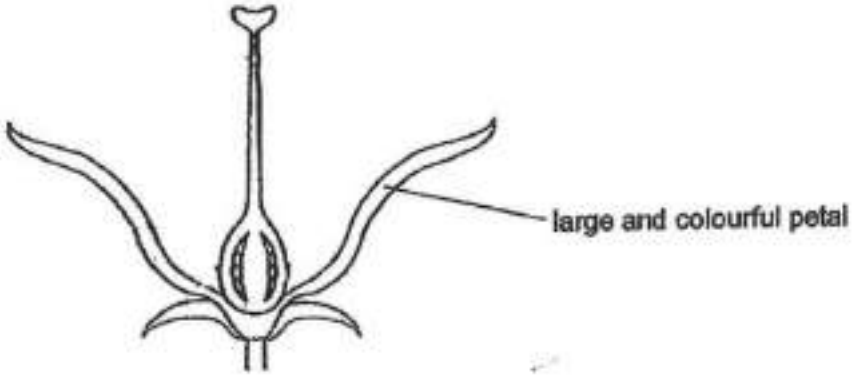
Before the parts were removed from the flower, the flower could pollinate itself.

Name the two reproductive parts of the flower that were removed.

Question 17 of 32

Primary 5 Science (Term 2) 0 pts

The flower below has two reproductive parts removed.



Before the parts were removed from the flower, the flower could pollinate itself.

Peter says that the flower above will not be able to become a fruit with the parts removed.

Do you agree with Peter? Give a reason for your answer. (1 mark)

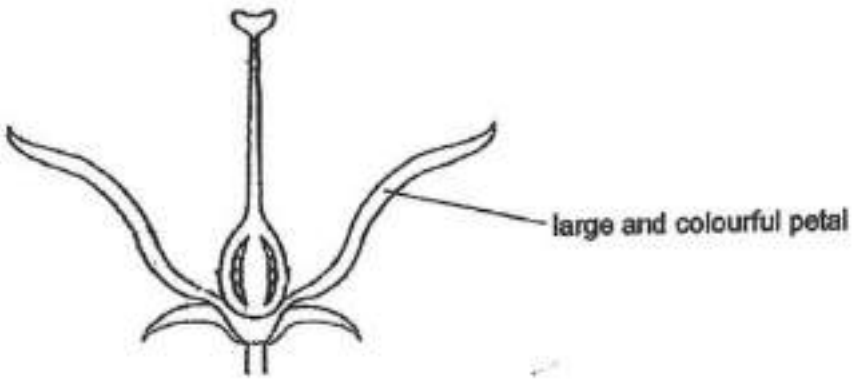
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 18 of 32

Primary 5 Science (Term 2) 0 pts

The flower below has two reproductive parts removed.



Before the parts were removed from the flower, the flower could pollinate itself.

How do large and colourful petals help in reproduction? (1 mark)

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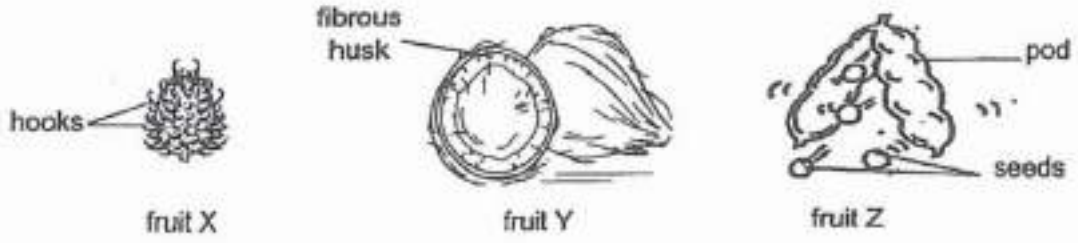
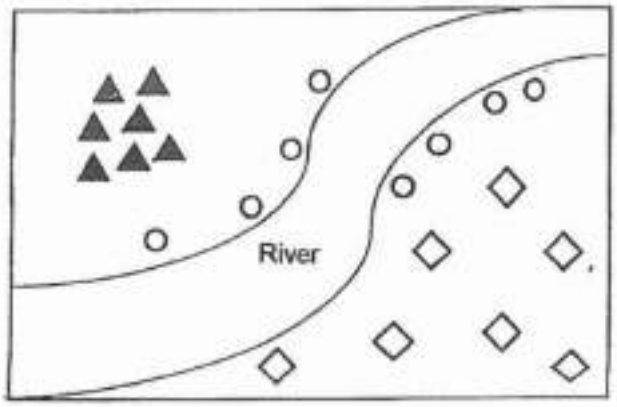
Question 19 of 32

Primary 5 Science (Term 2) 1 pt

The diagrams below show fruits X, Y and Z and the distribution pattern of its young.





Which fruit, X, Y or Z, does each symbol most likely represent?

1. [ ] ◇ : Fruit _____

2. [ ] ▲ : Fruit _____

3. [ ] ○ : Fruit _____

A. Y

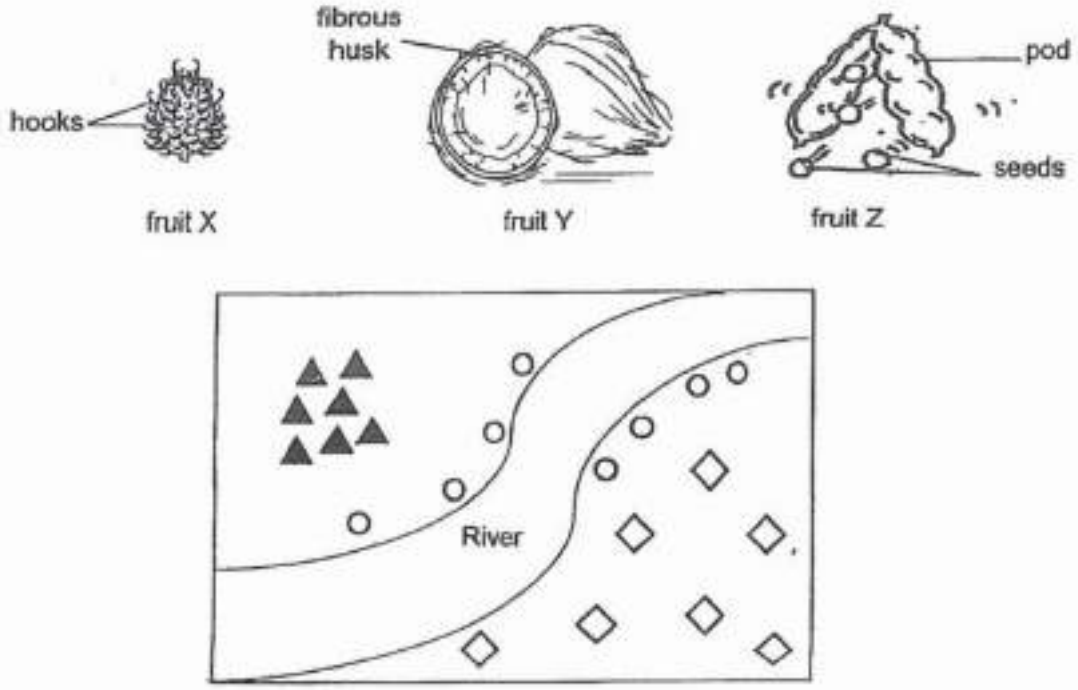
B. X

C. Z

Question 20 of 32

Primary 5 Science (Term 2) 0 pts

The diagrams below show fruits X, Y and Z and the distribution pattern of its young.



Explain how the fibrous husk of fruit Y helps in its dispersal. (1 mark)

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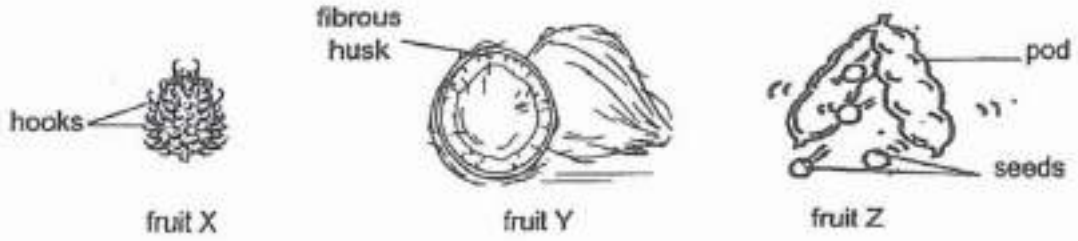
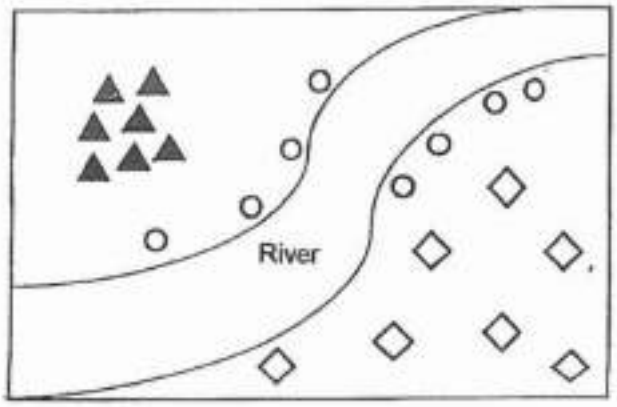
Question 21 of 32

Primary 5 Science (Term 2) 0 pts

The diagrams below show fruits X, Y and Z and the distribution pattern of its young.





Why is it important for fruits to be dispersed far away from their parent plants? (1 mark)

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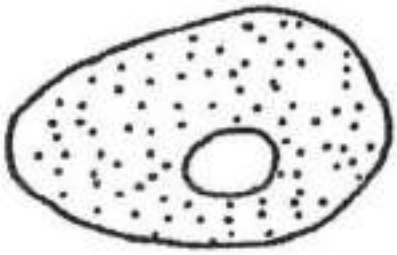
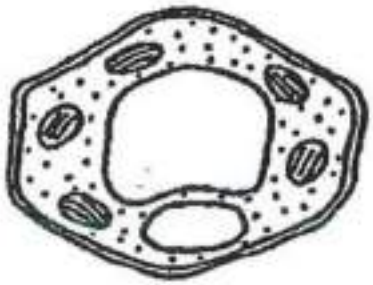
Question 22 of 32

Primary 5 Science (Term 2) 1 pt

Study cells X and Y below.



Cell X



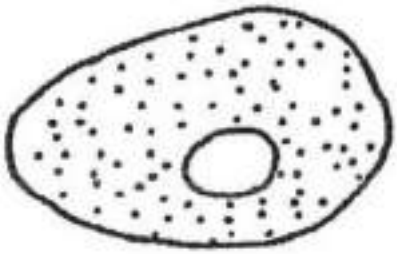
Cell Y

Which cell, X or Y is an animal cell?

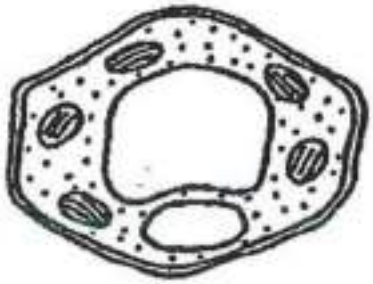
Question 23 of 32

Primary 5 Science (Term 2) 0 pts

Study cells X and Y below.



Cell X



Cell Y

Give a reason for your answer in the previous question. (1 mark)

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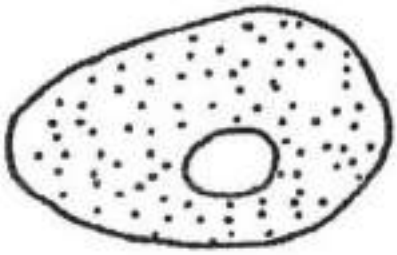
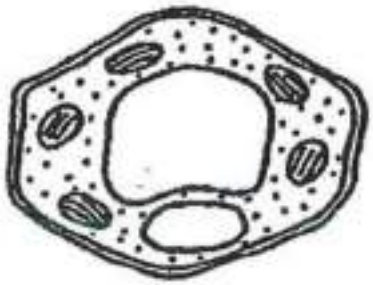
Question 24 of 32

Primary 5 Science (Term 2) 1 pt

Study cells X and Y below.



Cell X



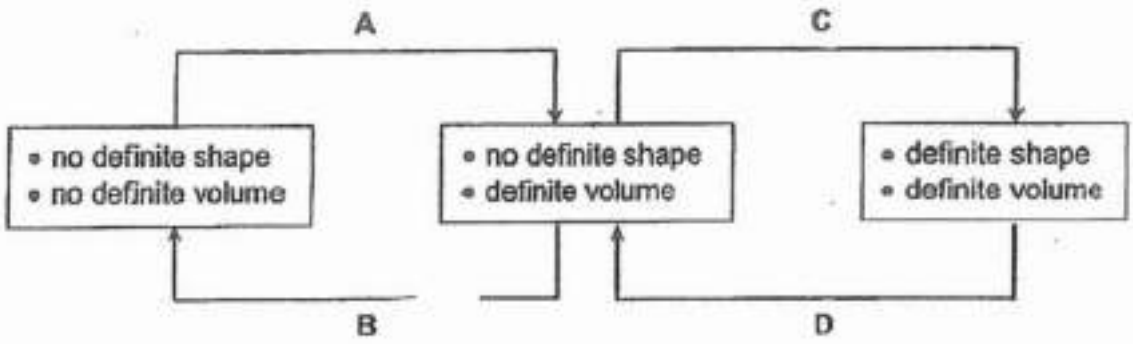
Cell Y

Name three cell parts that cell X and Y have in common.

Question 25 of 32

Primary 5 Science (Term 2) 1 pt

The diagram below shows the properties and change in states of water. A, B, C and D represent the processes that water undergoes when it changes state.

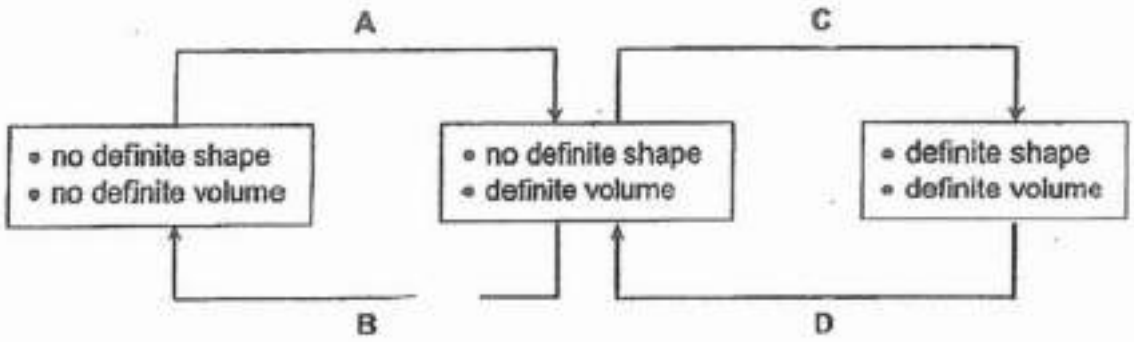


Which processes, A, B, C and D involve heat loss to the surroundings?

Question 26 of 32

Primary 5 Science (Term 2) 1 pt

The diagram below shows the properties and change in states of water. A, B, C and D represent the processes that water undergoes when it changes state.

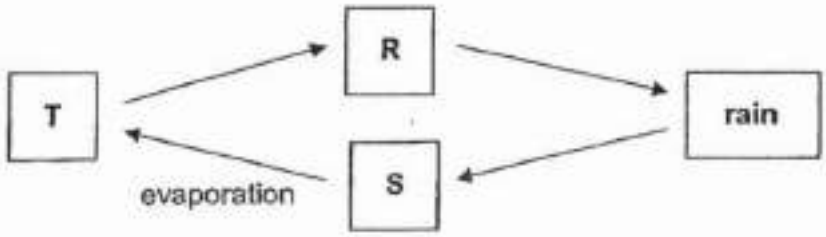


Which processes, A, B, C and D are important in the water cycle?

Question 27 of 32

Primary 5 Science (Term 2) 1 pt

The diagram below shows the water cycle.

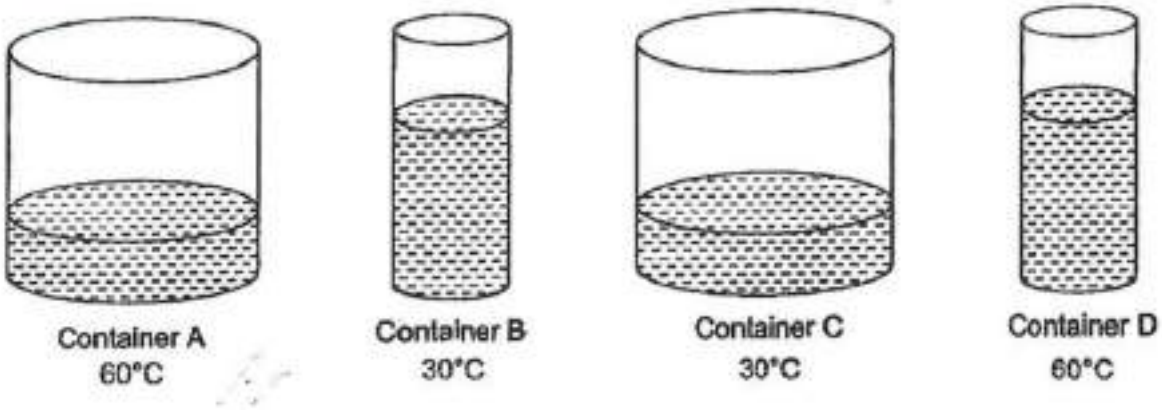


In which stages, R, S and T, do water not have definite shape? [1]

Question 28 of 32

Primary 5 Science (Term 2) 0 pts

Study the experimental set-ups below. Containers A and C are of the same size, and containers B and D are of the same size. All four containers are made of the same material and have the same thickness. Each container contains 250 ml of water at different temperatures as shown below.



Which container A, B, C or D, would have the least amount of water left after a day? Explain why. (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.

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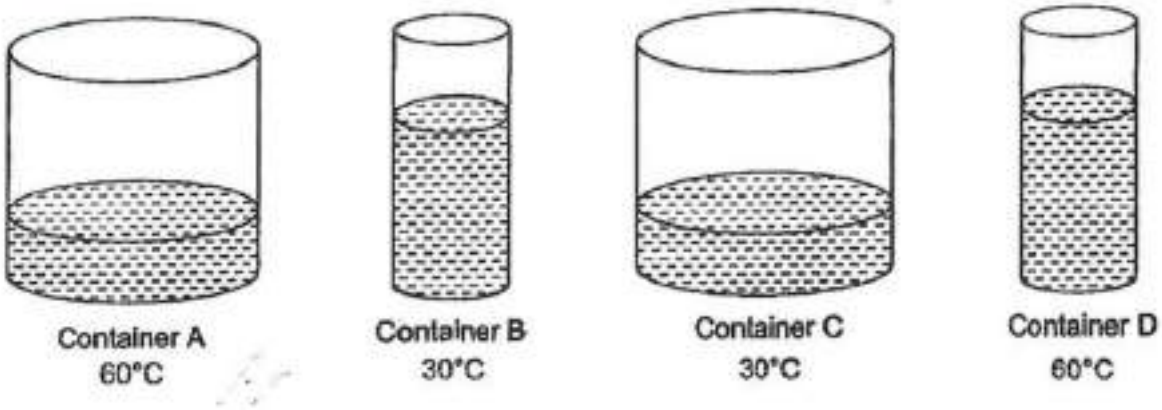
Question 29 of 32

Primary 5 Science (Term 2) 0 pts

Study the experimental set-ups below. Containers A and C are of the same size, and containers B and D are of the same size. All four containers are made of the same material and have the same thickness. Each container contains 250 ml of water at different temperatures as shown below.



If David compares the results of containers B and C, which factor that affects rate of evaporation is he trying to find out? (1 mark)

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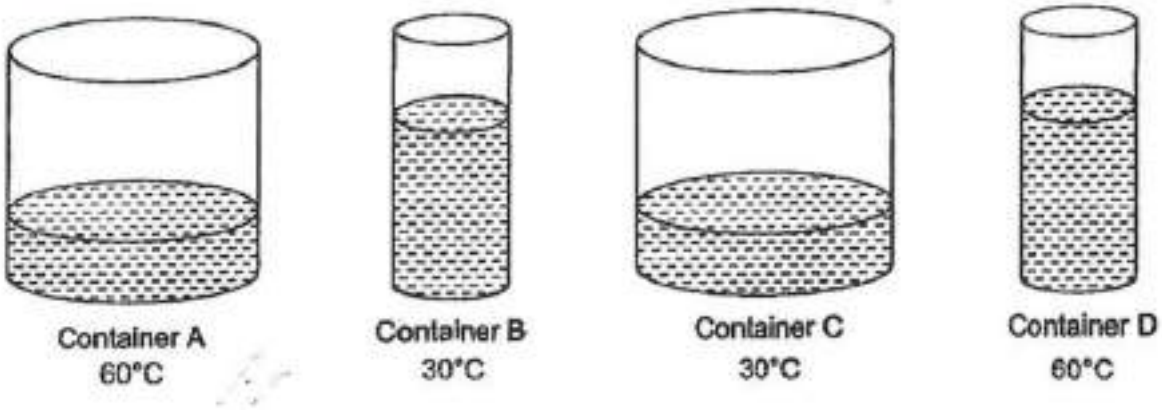
Question 30 of 32

Primary 5 Science (Term 2) 0 pts

Study the experimental set-ups below. Containers A and C are of the same size, and containers B and D are of the same size. All four containers are made of the same material and have the same thickness. Each container contains 250 ml of water at different temperatures as shown below.



For the experiment mentioned in the previous question, state another important variable that David should keep the same for a fair test. (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 32

Primary 5 Science (Term 2) 0 pts

State two differences between evaporation and boiling. (2 marks)

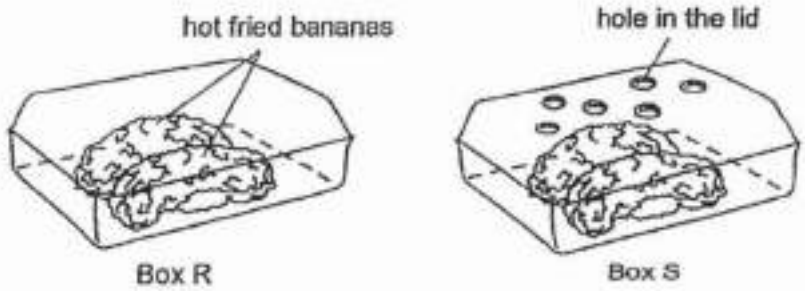
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

Question 32 of 32

Primary 5 Science (Term 2) 0 pts

Trisha put two pieces of hot fried bananas in box R and box S as shown below.



She observed that the bananas in box R became slightly wet after some time, but not those in box S.

Explain why the bananas in box R became wet. [2]

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.
