

Test: Primary 5 Science (Term 2) - Tao Nan (2020)

Points: 54 points

Name: _____

Score: _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

Only select one answer

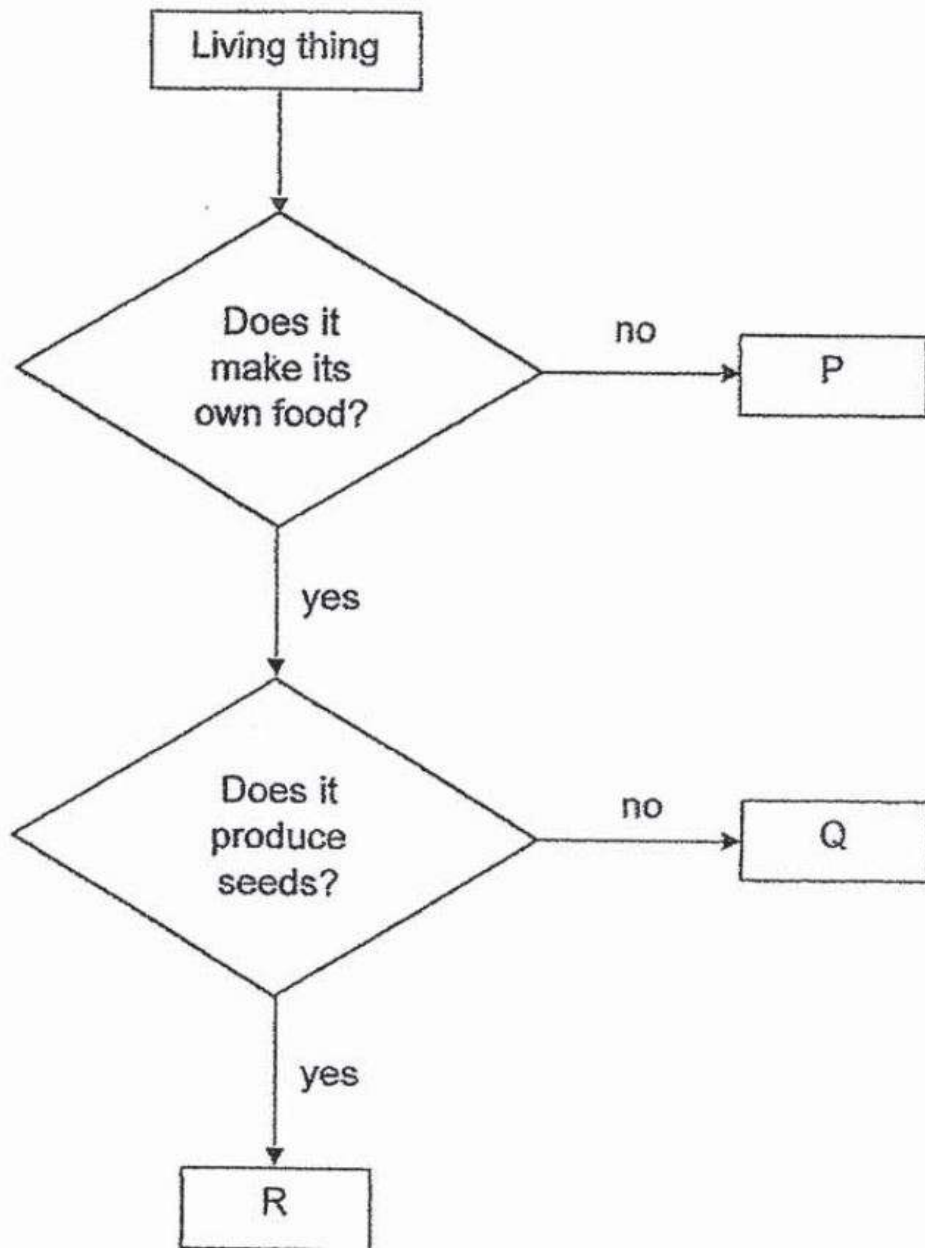
Can select multiple answers

Question 1 of 49

Primary 5 Science (Term 2)

2 pts

Study the chart below.



What could P, Q and R be?

- A)

P	Q	R
bacteria	mushroom	grass
- B)

P	Q	R
fern	bacteria	mushroom
- C)

P	Q	R

mushroom	fern	grass
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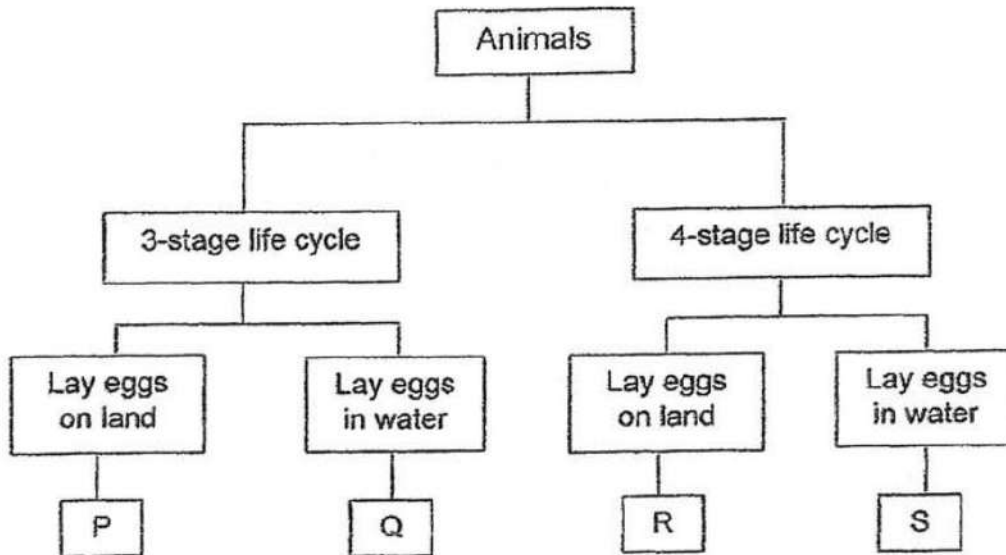
 D)

P	Q	R
bacteria	fern	mushroom

Question 2 of 49

Primary 5 Science (Term 2) 2 pts

Study the classification chart below.



Animal A lays eggs that hatch into young. The young of animal A has a breathing tube that enables it to breathe underwater. It eats and moults several times. The young then stops eating and during this period, it slowly changes into an adult.

Which group, P, Q, R or S, does animal A belong to?

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

Question 3 of 49

Primary 5 Science (Term 2) 2 pts

Why do living things reproduce?

- A) To stay alive.
 B) To grow into an adult.
 C) To ensure the continuity of their species.
 D) To pass down characteristics to their young.

Question 4 of 49

Primary 5 Science (Term 2)

2 pts

A group of students observed the growth of plant A over a few months. The plant did not bear flowers. They observed brown, powdery substance, X, that formed on the underside of the leaves.



Based on their observations, the students made the following statements. Which of the following statements is correct?

- A) X will attract pollinators.
- B) Plant A is too young to grow flowers.
- C) Plant A will not be able to reproduce.
- D) X ensures that the species of plant A continues to be found on Earth.

Question 5 of 49

Primary 5 Science (Term 2)

2 pts

Which of the following characteristics is not passed down from the parent to their children?

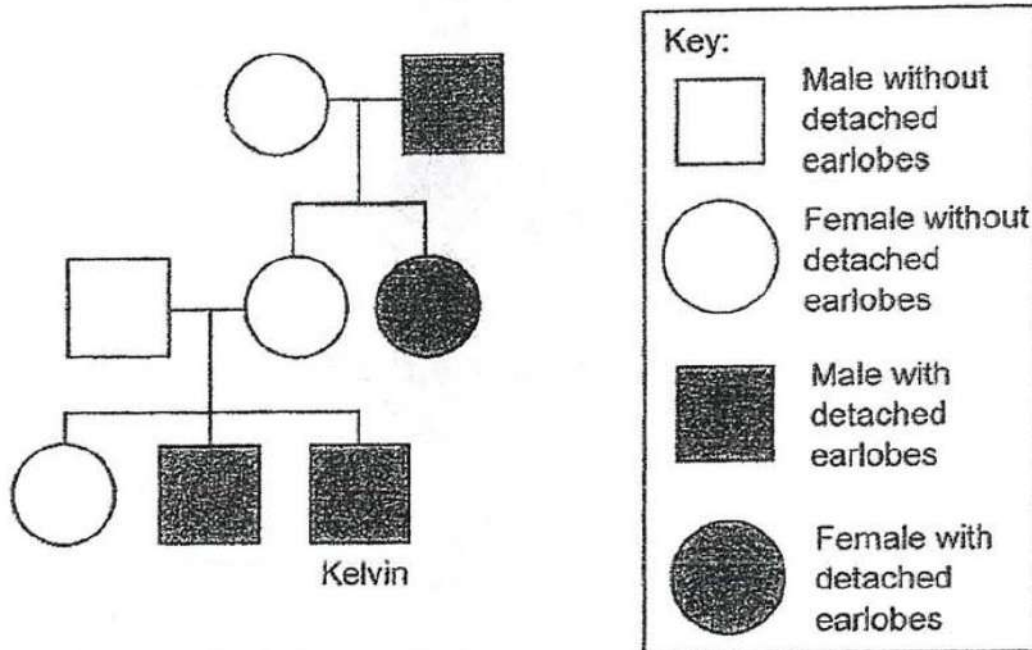
- A) blood type
- B) shape of lips
- C) length of hair
- D) type of earlobe

Question 6 of 49

Primary 5 Science (Term 2)

2 pts

The diagram below shows Kelvin's family tree.



Based on Kelvin's family tree, which statement is true?

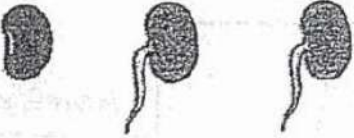

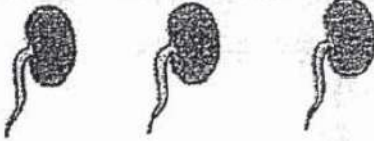

- A) Kelvin's father has detached earlobes.
- B) Kelvin's brother has detached earlobes.
- C) Kelvin's grandmother has detached earlobes.
- D) Only males inherit the characteristic of detached earlobes.

Question 7 of 49

Primary 5 Science (Term 2)

2 pts

Damien grew some seeds of a plant on four trays, A, B, C and D. The experimental conditions and results are shown below.

Tray	Soil	Location	Appearance of seeds on Day 5
A	wet	dark cupboard	
B	dry	dark cupboard	
C	wet	classroom table	
D	dry	classroom table	

Based only on the results shown above, what can be concluded on the condition(s) needed for the germination of the seeds?

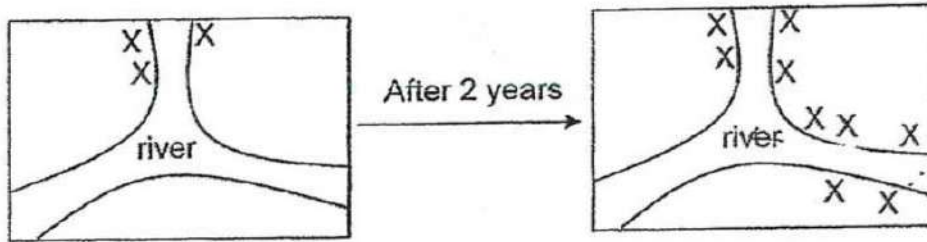
- A) Water is required.
- B) Warmth is required.
- C) Air, water and warmth are required.
- D) Light, water and warmth are required.

Question 8 of 49

Primary 5 Science (Term 2)

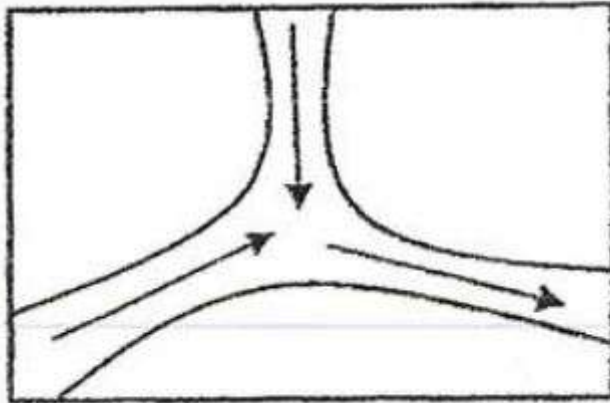
2 pts

It was observed that there were only 3 plant X growing along a river. After 2 years, the number of plant X increased to 9 as shown in the diagrams below. The seeds of plant X are dispersed by water only.

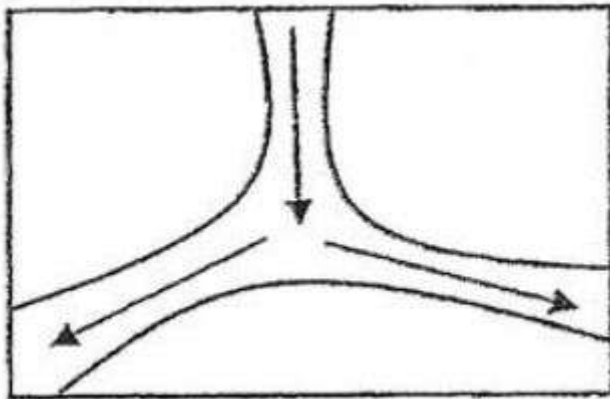


Which of the following shows the direction of the flow of the river?

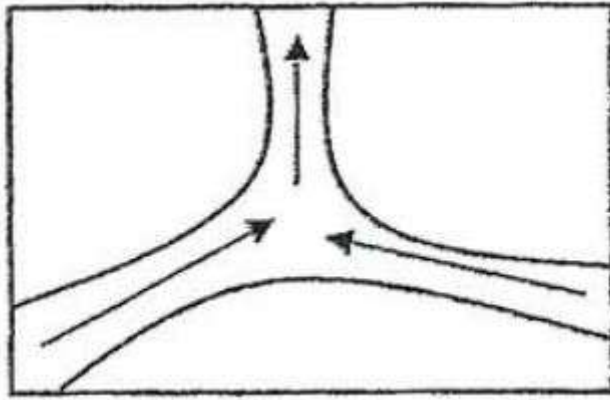
A)



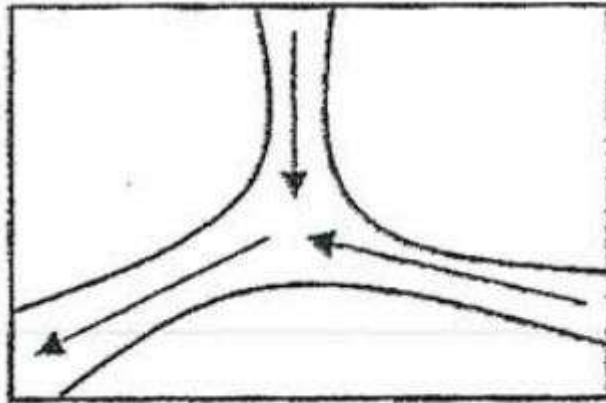
B)



C)



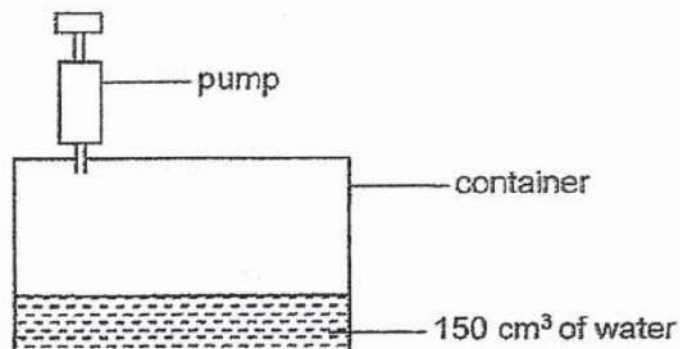
D)



Question 9 of 49

Primary 5 Science (Term 2) 2 pts

The diagram below shows a sealed container with a capacity of 500 cm^3 connected to a pump. The container has 150 cm^3 of water.



50 cm^3 of water was then pumped into the container followed by 50 cm^3 of air.

What is the final volume of air inside the container?

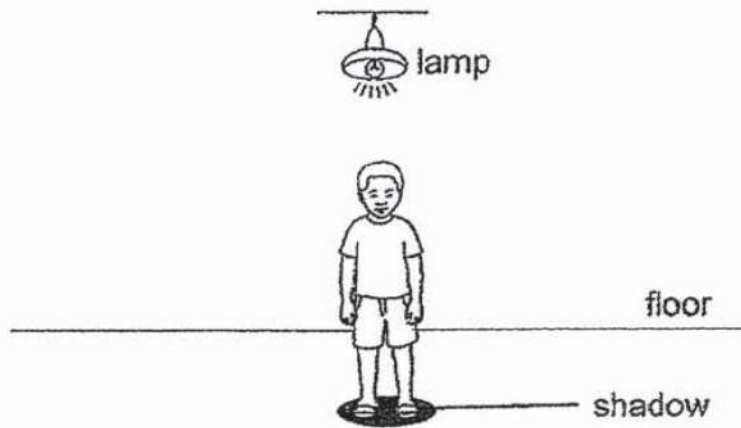
- A) 250 cm^3
- B) 300 cm^3
- C) 350 cm^3
- D) 400 cm^3

Question 10 of 49

Primary 5 Science (Term 2)

2 pts

A shadow was formed when Josh stood under a lamp as shown below.



Which of the following best explains how the shadow was formed?

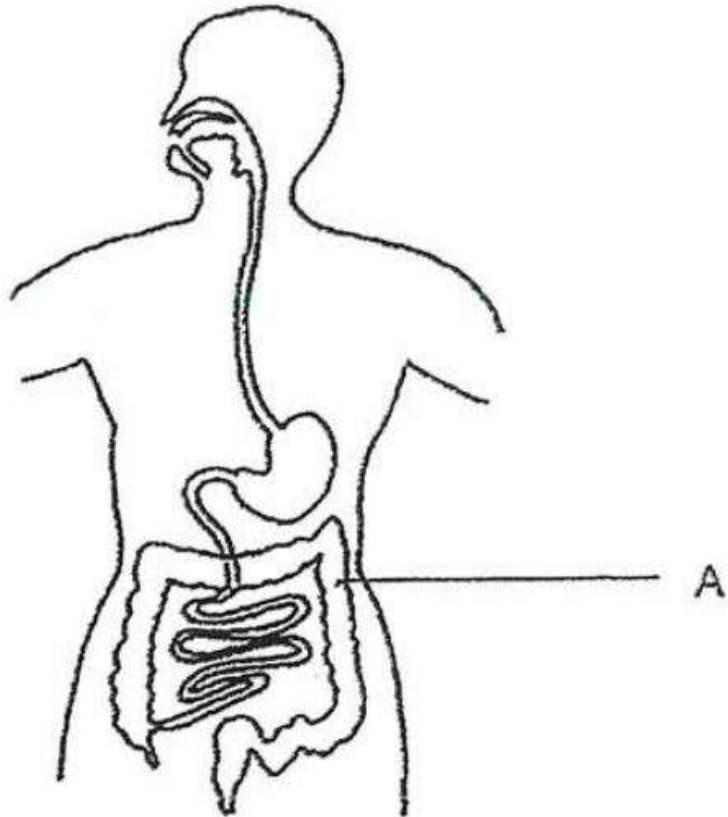
- A) The lamp was a source of light.
- B) Light is reflected off Josh's body.
- C) Light was reflected off the floor and into Josh's eyes.
- D) Light travels in a straight line and could not pass through Josh.

Question 11 of 49

Primary 5 Science (Term 2)

2 pts

The diagram below shows a human digestive system.



What is the function of A?

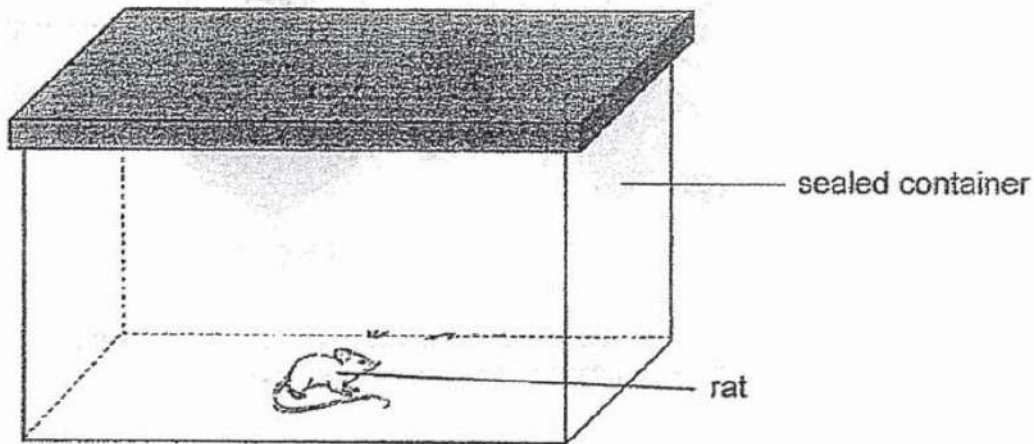
-
- A) To digest food.
 - B) To break down food into smaller pieces.
 - C) To pass digested food into the bloodstream.
 - D) To remove water from the undigested food.

Question 12 of 49

Primary 5 Science (Term 2)

2 pts

Amelia caught a rat and kept it in a huge sealed container as shown below.



Which of the following shows a possible change in the composition of air in the container after one day?

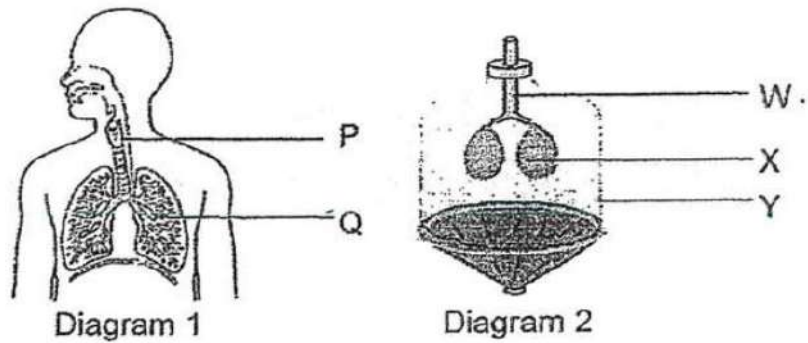
- A)
- | Amount of nitrogen | Amount of oxygen | Amount of carbon dioxide | Amount of water vapour |
|--------------------|------------------|--------------------------|------------------------|
| remains the same | decreases | increases | remains the same |
- B)
- | Amount of nitrogen | Amount of oxygen | Amount of carbon dioxide | Amount of water vapour |
|--------------------|------------------|--------------------------|------------------------|
| remains the same | decreases | increases | increases |
- C)
- | Amount of nitrogen | Amount of oxygen | Amount of carbon dioxide | Amount of water vapour |
|--------------------|------------------|--------------------------|------------------------|
| decreases | decreases | increases | increases |
- D)
- | Amount of nitrogen | Amount of oxygen | Amount of carbon dioxide | Amount of water vapour |
|--------------------|------------------|--------------------------|------------------------|
| decreases | increases | increases | remains the same |

Question 13 of 49

Primary 5 Science (Term 2)

2 pts

Study the human respiratory system in diagram 1 and model in diagram 2.



Which of the following correctly matches the part in Diagram 1 to that in Diagram 2 and to its function in the respiratory system?

- A)

Part	Part	Function
P	W	becomes smaller to allow air to leave the body
- B)

Part	Part	Function
P	X	warms and moistens the air
- C)

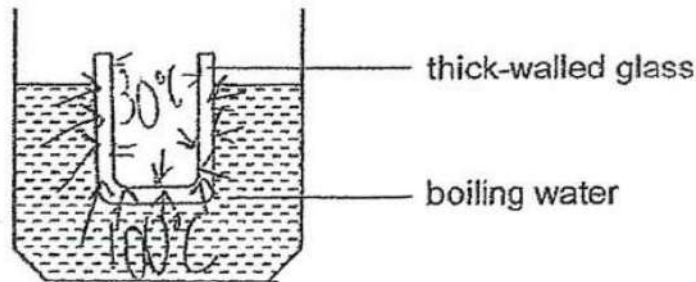
Part	Part	Function
Q	X	allows exchange of gases
- D)

Part	Part	Function
Q	Y	becomes bigger to allow air to enter the body

Question 14 of 49

Primary 5 Science (Term 2) 2 pts

Jonas took a cold thick-walled glass from a refrigerator and placed it in boiling water as shown below. The surrounding temperature of the room was 30°C.



Which of the following best explains why the glass cracked after a few minutes?

- A) The outer glass wall expanded more than the inner glass wall.
- B) Both the inner and outer glass walls gained heat from the boiling water.
- C) The glass lost heat to the refrigerator and gained heat from the boiling water.
- D) The outer glass wall gained heat from the surrounding while the inner glass wall lost heat to the surrounding.

Question 15 of 49

Primary 5 Science (Term 2) 2 pts

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

Substance	Melting point (°C)	Boiling point (°C)
A	0	100
B	44	280
C	63	762
D	179	1 372

Which substance will be a solid at 100°C?

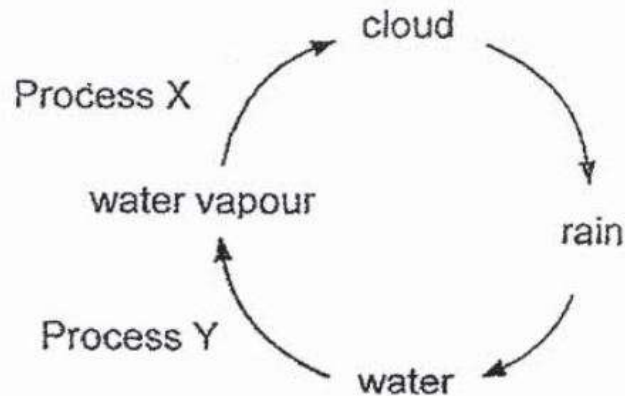
- A) A
- B) B
- C) C
- D) D

Question 16 of 49

Primary 5 Science (Term 2)

2 pts

The diagram below shows the water cycle.



What is Process X and is it a heat gain or heat loss for Process Y?

- A)

Process X	Is it a heat gain or heat loss for Process Y?
evaporation	heat loss
- B)

Process X	Is it a heat gain or heat loss for Process Y?
evaporation	heat gain
- C)

Process X	Is it a heat gain or heat loss for Process Y?
condensation	heat loss
- D)

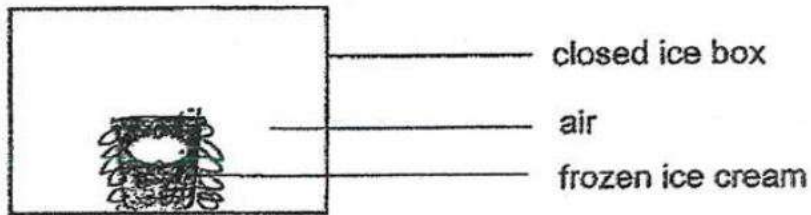
Process X	Is it a heat gain or heat loss for Process Y?
condensation	heat gain

Question 17 of 49

Primary 5 Science (Term 2)

2 pts

A pint of frozen ice-cream is placed in an ice box as shown below.



What will happen to the temperature of the air and the amount of water vapour in the air within the ice box after ten minutes?

- A)

Temperature of air	Amount of water vapour in the air
increase	increase
- B)

Temperature of air	Amount of water vapour in the air
increase	decrease
- C)

Temperature of air	Amount of water vapour in the air
decrease	increase
- D)

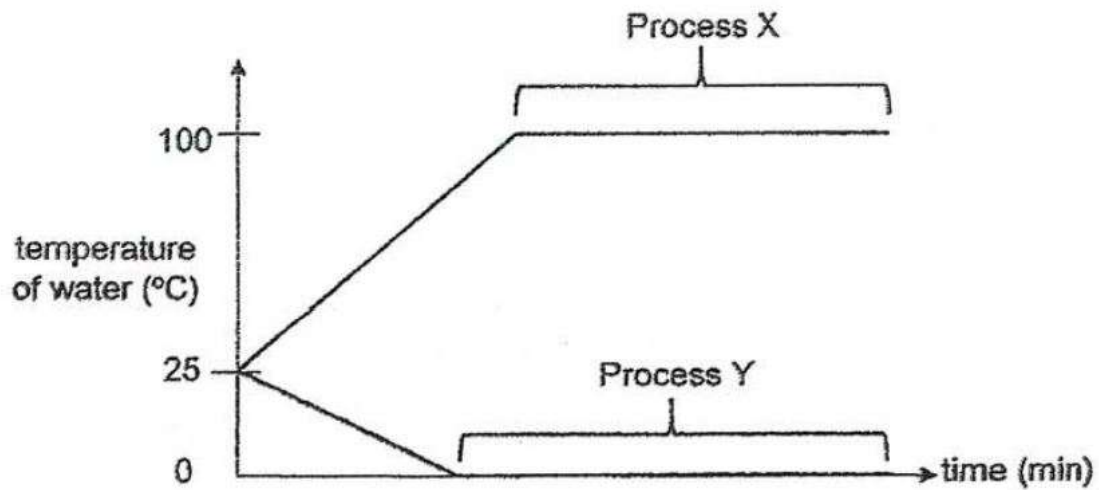
Temperature of air	Amount of water vapour in the air
decrease	decrease

Question 18 of 49

Primary 5 Science (Term 2)

2 pts

The graph below shows water going through two processes, X and Y.



Which of the following statements about the two processes, X and Y, is correct?

- A) Both processes, X and Y, involve heat gain.
- B) Both processes, X and Y, occur at fixed temperatures.
- C) Process X involves a change in state while Process Y does not.
- D) Process X involves heat loss while Process Y involves heat gain.

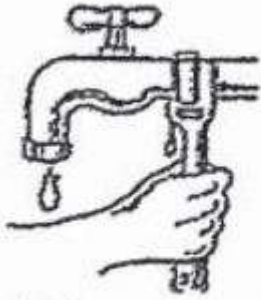
Question 19 of 49

Primary 5 Science (Term 2)

2 pts

Which of the following actions shows water being conserved?

A)



fixing a leaking tap

B)



playing with a water gun

C)



washing face with a running tap

D)

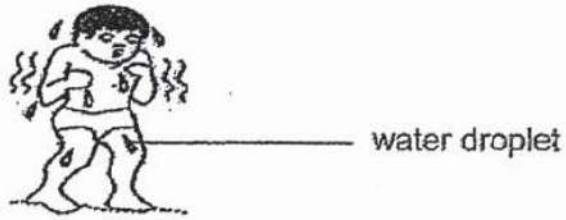


watering plants with a running hose

Question 20 of 49

Primary 5 Science (Term 2) 2 pts

Bryan went for a swim on a hot afternoon. When he came out of the cool water, he felt cold.



Why did he feel cold?

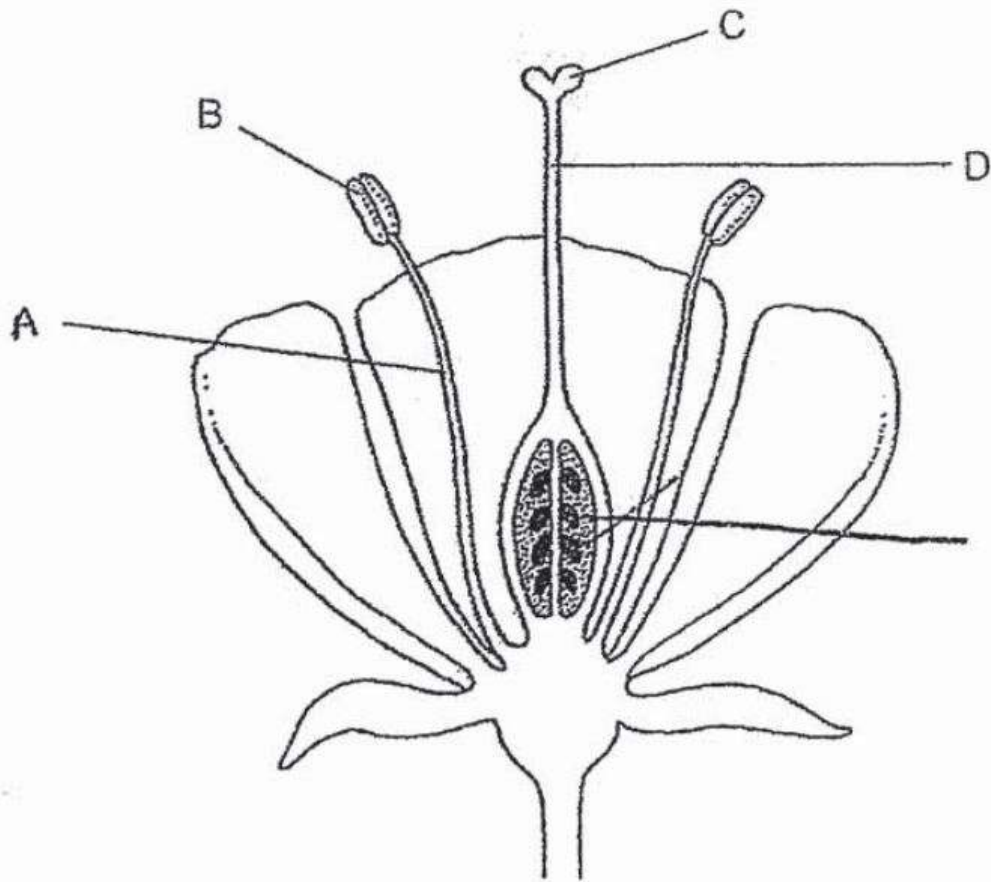
- A) He gained heat from the hot sun.
- B) Water gained heat from his body to evaporate.
- C) The surrounding air was colder than the water.
- D) Water vapour in the surrounding air condensed on him.

Question 21 of 49

Primary 5 Science (Term 2)

0.5 pts

The diagram below shows the cross section of a flower.



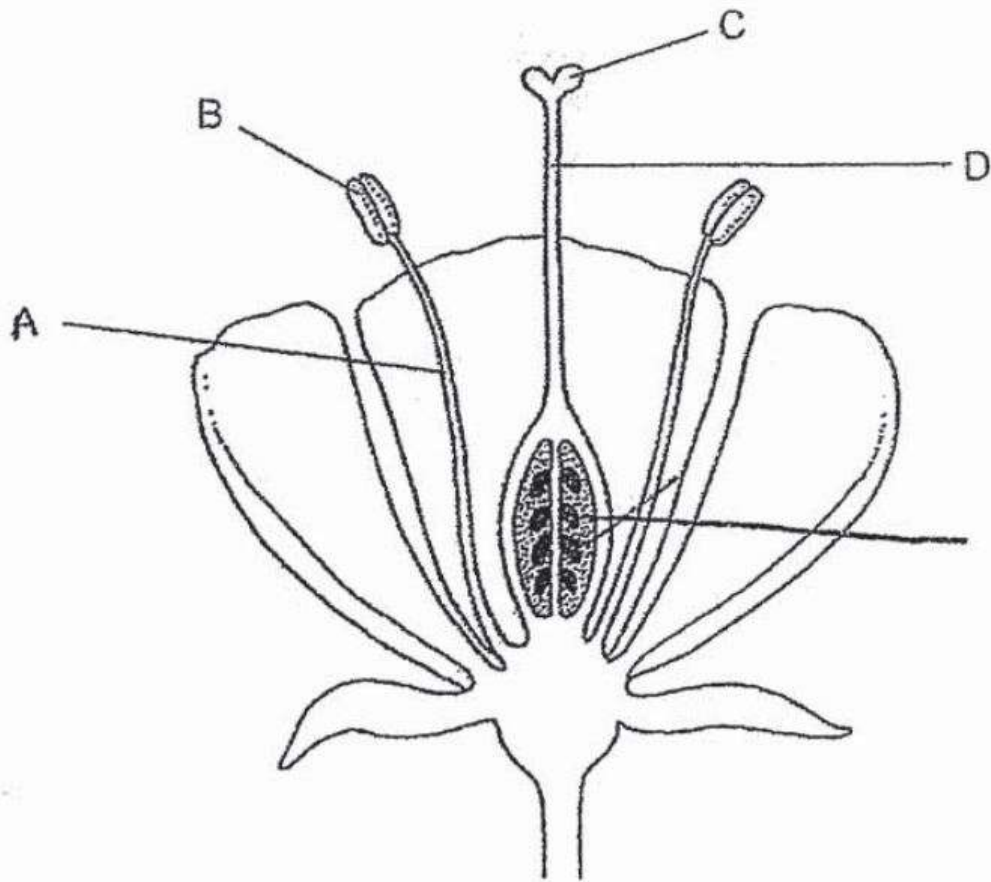
Name the part labelled A.

Question 22 of 49

Primary 5 Science (Term 2)

0.5 pts

The diagram below shows the cross section of a flower.



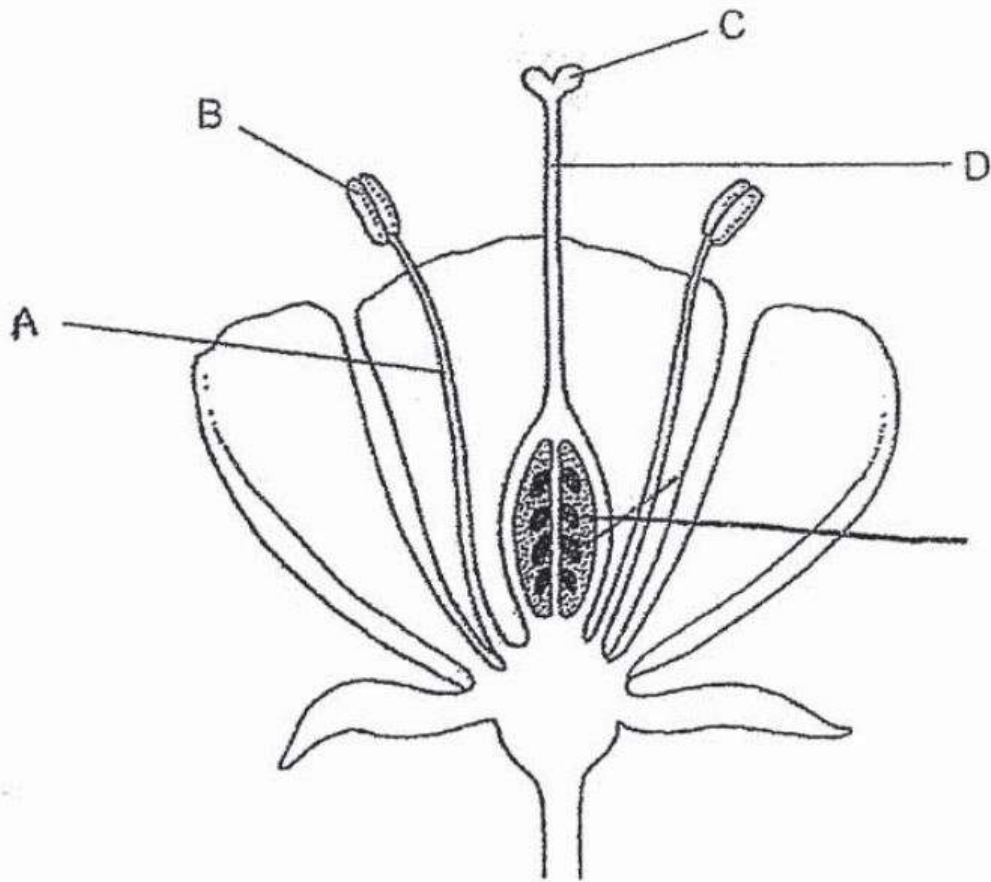
Name the part labelled B.

Question 23 of 49

Primary 5 Science (Term 2)

0.5 pts

The diagram below shows the cross section of a flower.



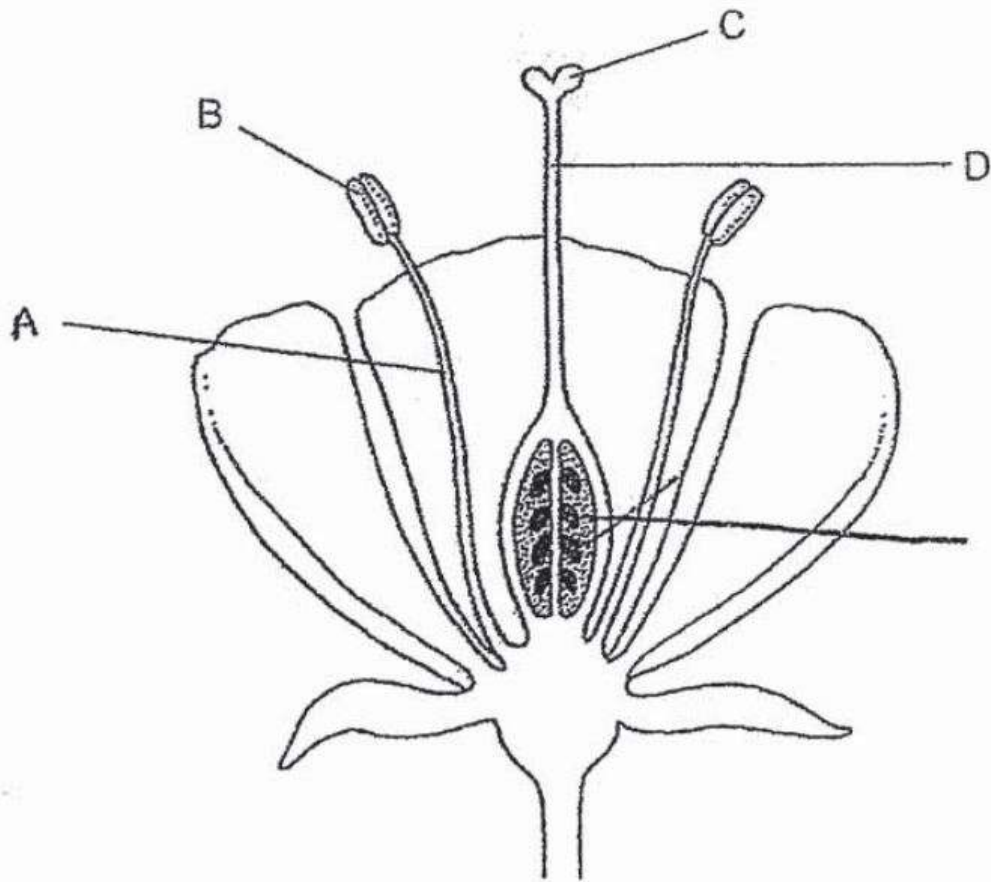
Name the part labelled C.

Question 24 of 49

Primary 5 Science (Term 2)

0.5 pts

The diagram below shows the cross section of a flower.



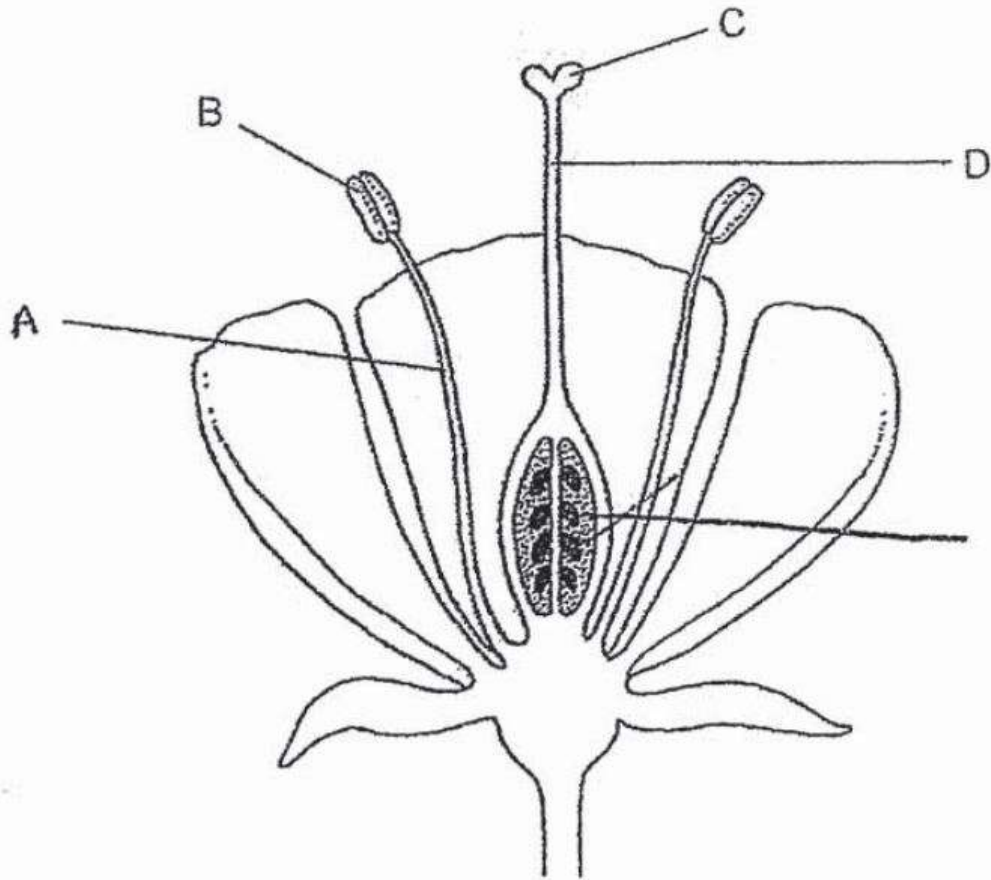
Name the part labelled D.

Question 25 of 49

Primary 5 Science (Term 2)

1 pt

The diagram below shows the cross section of a flower.

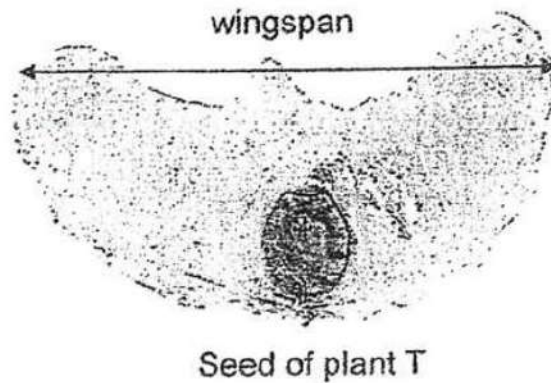


In the above diagram, identify the part that will develop into a seed after fertilisation. Label and name that part in the diagram. (1 mark)

Question 26 of 49

Primary 5 Science (Term 2) 0 pts

On a windy day, Dylan observed the seeds from plant T fluttering in the air. He collected 3 seeds, A, B and C, with different wingspans and dropped them from a height of 8 m.



He measured the time taken for each seed to reach the ground. The results of his experiment are shown in the table below.

Seed	Wingspan (cm)	Time taken to reach the ground (s)
A	8	4
B	10	8
C	13	12

What is the relationship between the wingspan of the seed and the time taken for the seed to reach the ground? (1 mark)

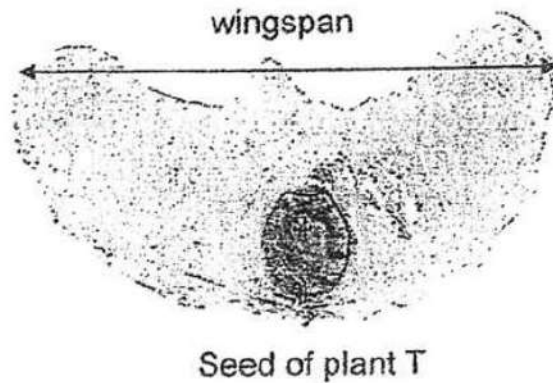
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 27 of 49

Primary 5 Science (Term 2) 0 pts

On a windy day, Dylan observed the seeds from plant T fluttering in the air. He collected 3 seeds, A, B and C, with different wingspans and dropped them from a height of 8 m.



He measured the time taken for each seed to reach the ground. The results of his experiment are shown in the table below.

Seed	Wingspan (cm)	Time taken to reach the ground (s)
A	8	4
B	10	8
C	13	12

Explain how having seeds with a longer wingspan would be advantageous to the reproduction of plant T. (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.

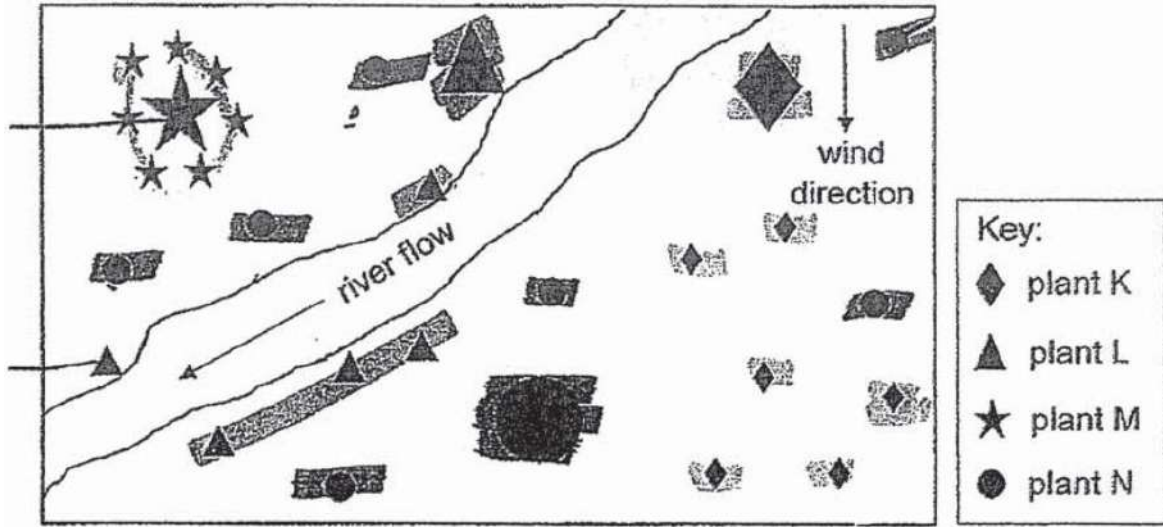
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 28 of 49

Primary 5 Science (Term 2)

2 pts

The diagram below shows the locations of 4 types of plants, K, L, M, and N. The larger symbols indicate the parent plants and the smaller symbols indicate the young plants.



Based on the above diagram, identify the fruit/seed of plants K, L, M and N in the table below. (2 marks)

1. []

Seed/ Fruit	Plant

A. N

2. []

--	--

B. M

3. []

--	--

C. L

4. []

--	--

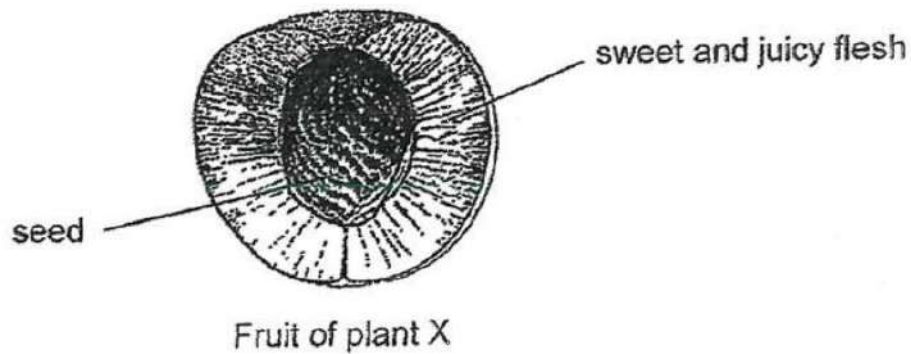
D. K

Question 29 of 49

Primary 5 Science (Term 2)

0 pts

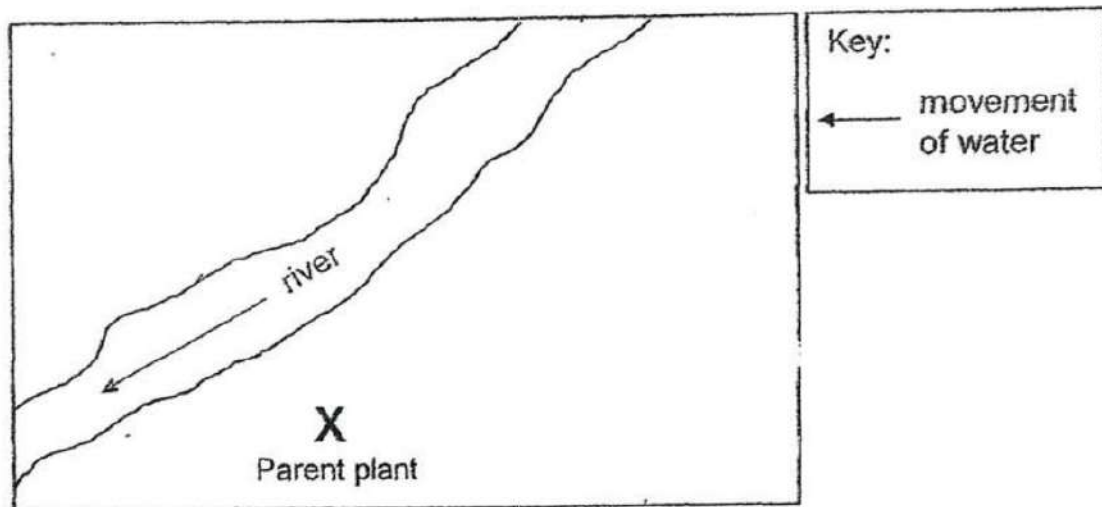
Study the picture of the fruit of plant X below.



The seed of plant X is dispersed by animal T. Animal T cannot swim or fly.

Parent plant X is grown a distance from a river as shown below. After a few years, young plants of X were seen.

A parent plant X is shown in the map below. Draw five more "X"s on the same map to show the possible locations of five young plants X where the seeds could be dispersed to. [1]



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.

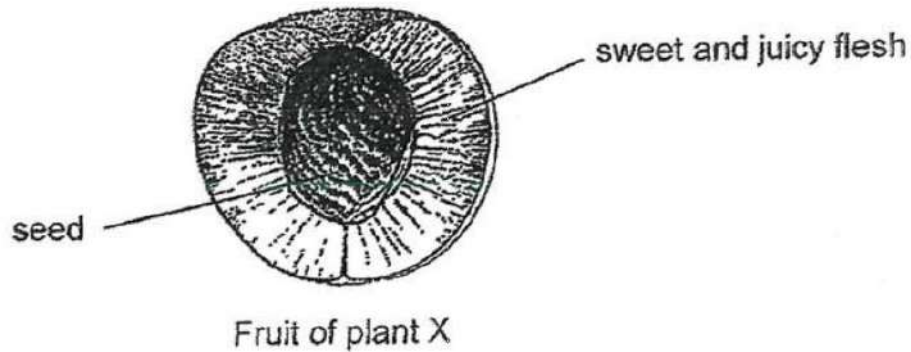
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 30 of 49

Primary 5 Science (Term 2)

0 pts

Study the picture of the fruit of plant X below.



The seed of plant X is dispersed by animal T. Animal T cannot swim or fly.

Parent plant X is grown a distance from a river as shown below. After a few years, young plants of X were seen.

Describe how the young plants reached these new locations. (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.

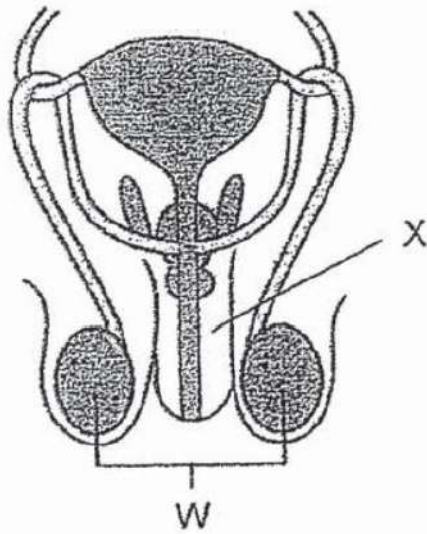
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 31 of 49

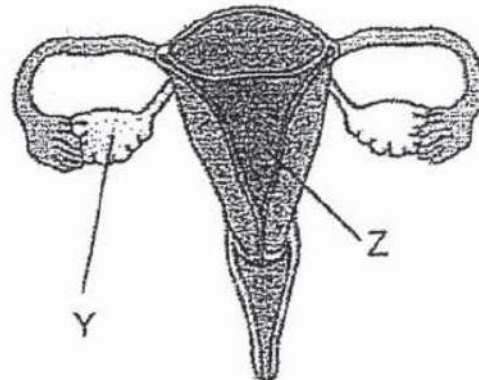
Primary 5 Science (Term 2)

1 pt

The diagrams below show the male and female reproductive systems.



male reproductive system



female reproductive system

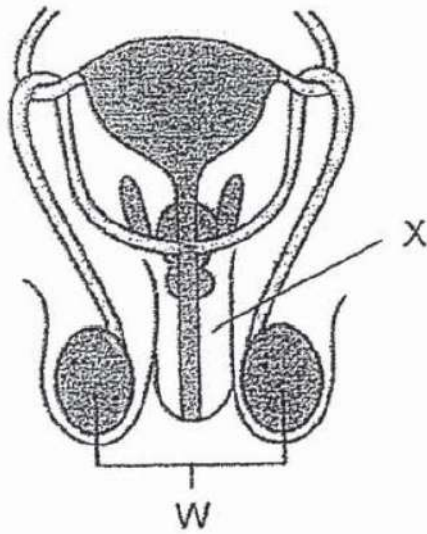
Name part Y.

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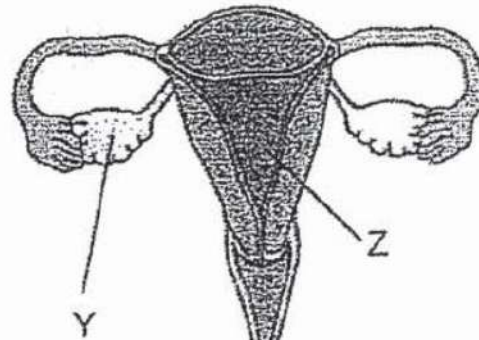
Primary 5 Science (Term 2)

0 pts

The diagrams below show the male and female reproductive systems.



male reproductive system



female reproductive system

What is the function of part W? (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.

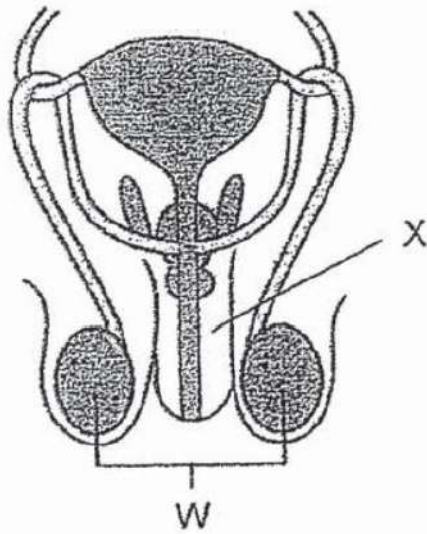
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 33 of 49

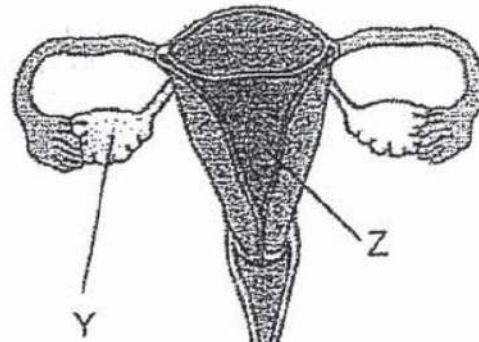
Primary 5 Science (Term 2)

1 pt

The diagrams below show the male and female reproductive systems.



male reproductive system



female reproductive system

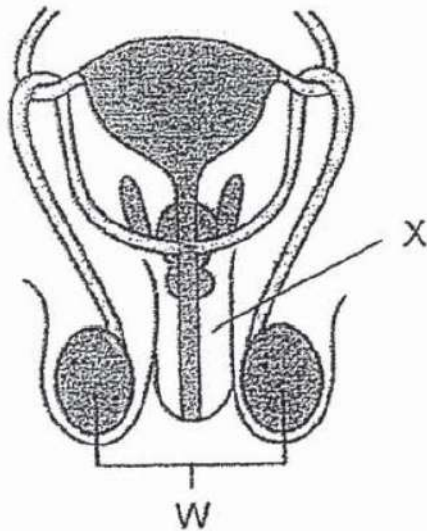
At which part, W, X, Y or Z will an unborn baby develop?

Question 34 of 49

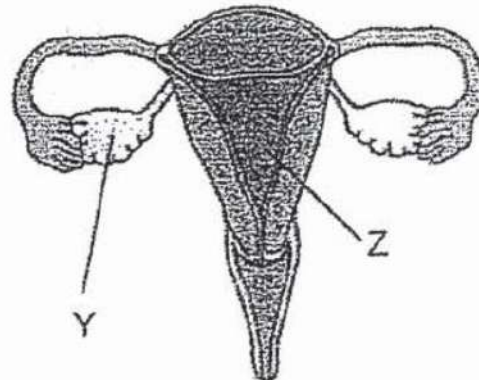
Primary 5 Science (Term 2)

1 pt

The diagrams below show the male and female reproductive systems.



male reproductive system



female reproductive system

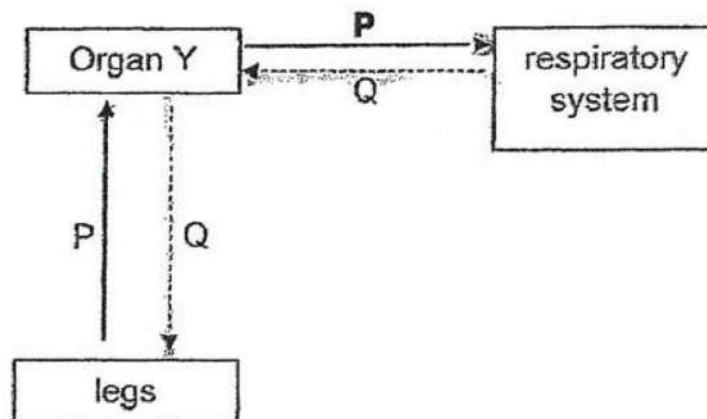
Which part of a flower has the same function as part W?

Question 35 of 49

Primary 5 Science (Term 2)

0.5 pts

The diagram below shows how gas P and gas Q are transported in the human body.

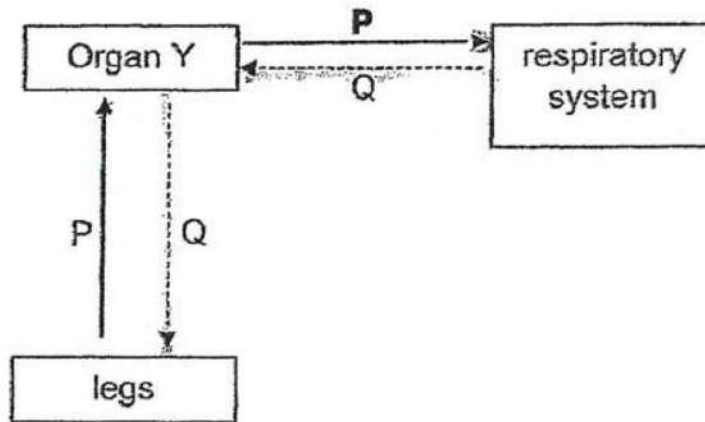


Identify gas P.

Question 36 of 49

Primary 5 Science (Term 2) 0.5 pts

The diagram below shows how gas P and gas Q are transported in the human body.

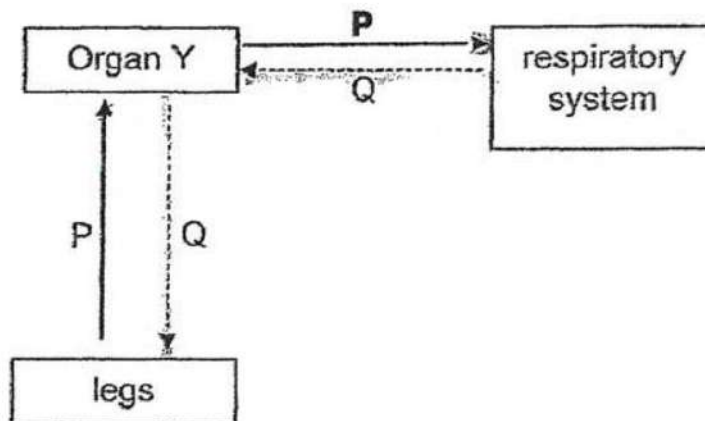


Identify gas Q.

Question 37 of 49

Primary 5 Science (Term 2) 1 pt

The diagram below shows how gas P and gas Q are transported in the human body.



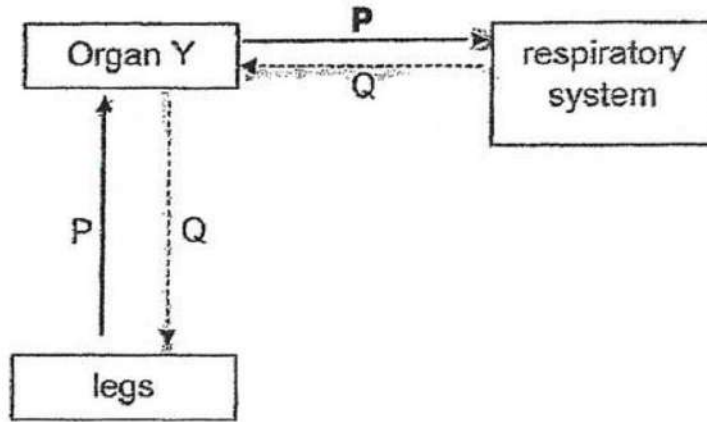
Identify organ Y.

Question 38 of 49

Primary 5 Science (Term 2)

0 pts

The diagram below shows how gas P and gas Q are transported in the human body.



A man started running and noticed his breathing rate and heart rate increase. Describe how the increased rates affected the amount of gas Q reaching his legs. (1 marks)

Rate	How the rates affected the amount of gas Q reaching his legs
Breathing rate	

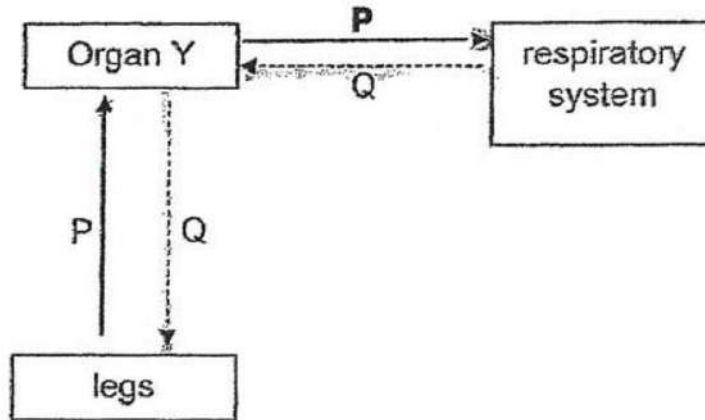
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 39 of 49

Primary 5 Science (Term 2) 0 pts

The diagram below shows how gas P and gas Q are transported in the human body.



A man started running and noticed his breathing rate and heart rate increase. Describe how the increased rates affected the amount of gas Q reaching his legs. (1 mark)

Rate	How the rates affected the amount of gas Q reaching his legs
Heart rate	

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.

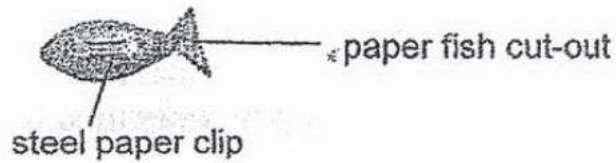
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 40 of 49

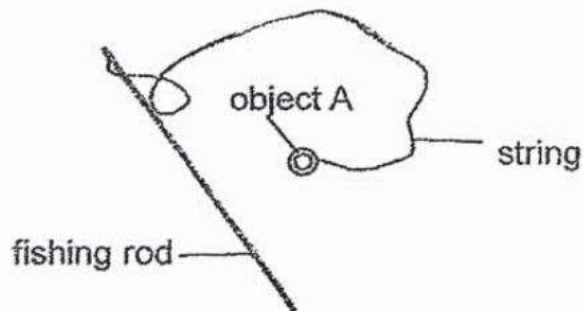
Primary 5 Science (Term 2)

1 pt

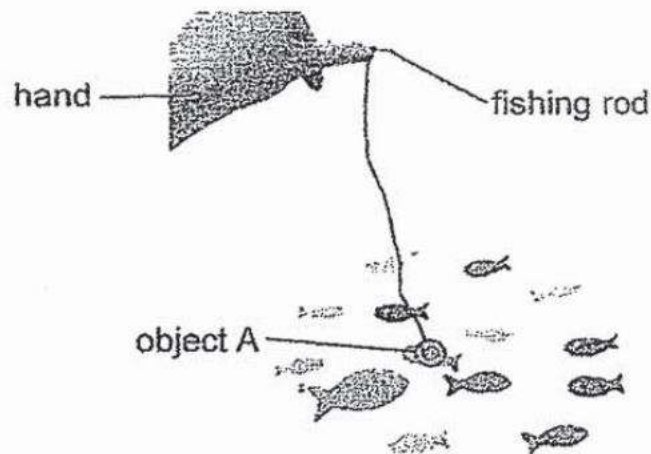
Jenny fixed a steel paper clip onto each paper fish cut-out she made.



She also tied object A to the end of the string of a fishing rod.



She brought object A close to the fish cut-outs as shown below.



Jenny observed a fish cut-out moved towards object A and was stuck to object A when she lifted up the fishing rod.

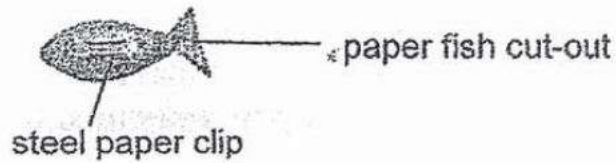
State what object A is. (1 mark)

Question 41 of 49

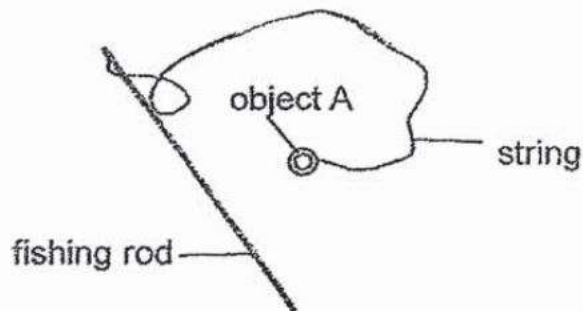
Primary 5 Science (Term 2)

0 pts

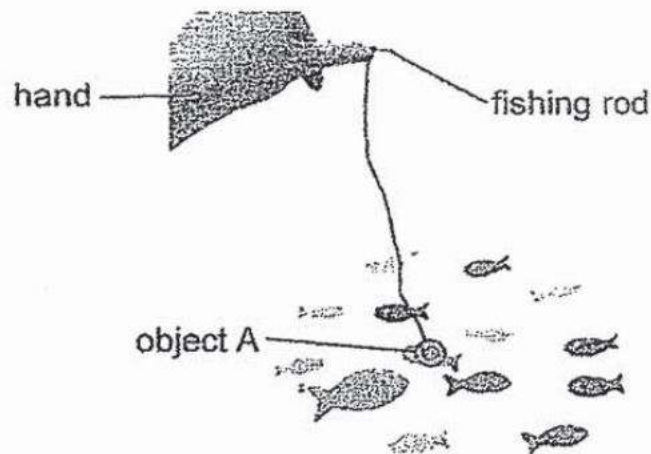
Jenny fixed a steel paper clip onto each paper fish cut-out she made.



She also tied object A to the end of the string of a fishing rod.



She brought object A close to the fish cut-outs as shown below.



Jenny observed a fish cut-out moved towards object A and was stuck to object A when she lifted up the fishing rod.

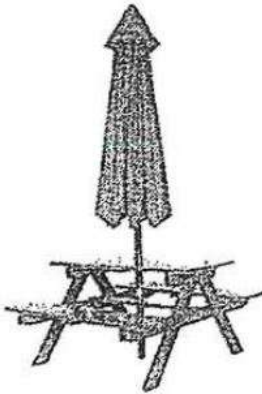
Explain why the fish cut-out moved towards object A. (1 mark)

Question 42 of 49

Primary 5 Science (Term 2)

1 pt

Stacy rested at a picnic table shown below. Whenever it was sunny or rainy, she opened the umbrella that was attached to the table.



picnic table with
closed umbrella



picnic table with
opened umbrella

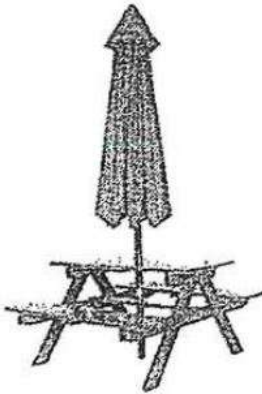
Based on the above information, fill in the blanks below with the correct property or reason a material must have in order to make part X of the umbrella. [2]

Property	Reason
	It keeps the user dry on rainy days.

Question 43 of 49

Primary 5 Science (Term 2) 0 pts

Stacy rested at a picnic table shown below. Whenever it was sunny or rainy, she opened the umbrella that was attached to the table.



picnic table with closed umbrella



picnic table with opened umbrella

Based on the above information, fill in the blanks below with the correct property or reason a material must have in order to make part X of the umbrella. [2]

Property	Reason
Does not allow light to pass through	

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.

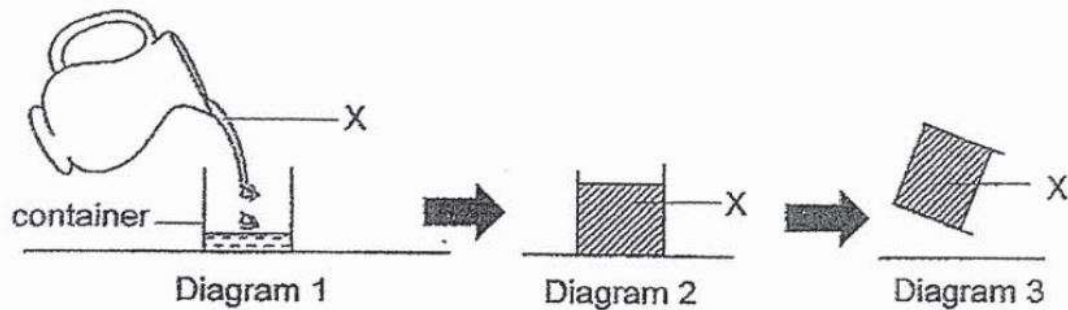
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 44 of 49

Primary 5 Science (Term 2)

1 pt

Mara poured substance X into a container as shown in Diagram 1. She then let X freeze as shown in Diagram 2. She took out the container from the freezer after five hours and observed what happened to X when she tried tilting it as shown in Diagram 3.



Fill in the boxes to show the change of state in X.

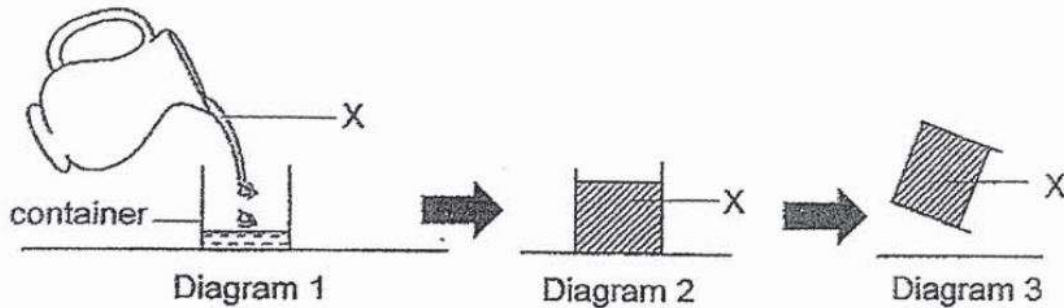


Question 45 of 49

Primary 5 Science (Term 2)

0 pts

Mara poured substance X into a container as shown in Diagram 1. She then let X freeze as shown in Diagram 2. She took out the container from the freezer after five hours and observed what happened to X when she tried tilting it as shown in Diagram 3.



Explain how the different properties of X at different states allowed Mara to obtain the shape of X after freezing as shown above. (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.

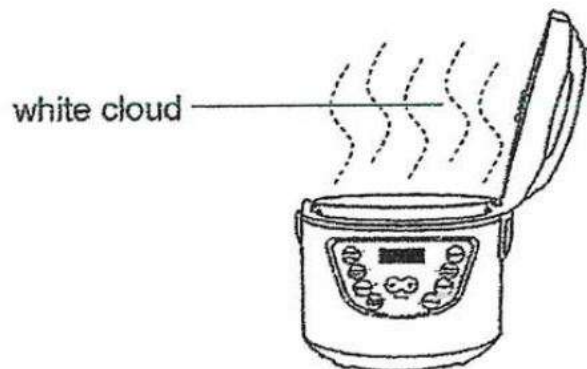
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 46 of 49

Primary 5 Science (Term 2)

1 pt

Janet wanted to scoop some hot rice for dinner. When she opened the lid of the rice cooker, a "white cloud" formed as shown below.

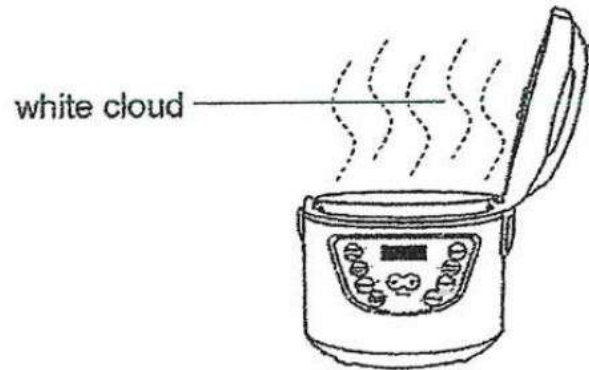


What is the "white cloud"?

Question 47 of 49

Primary 5 Science (Term 2) 0 pts

Janet wanted to scoop some hot rice for dinner. When she opened the lid of the rice cooker, a "white cloud" formed as shown below.



Explain how the "white cloud" was formed. (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.

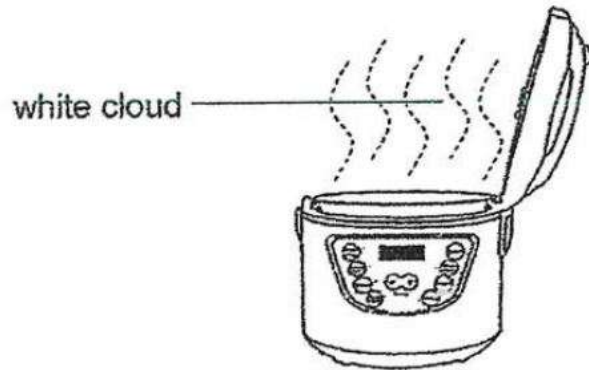
Grading: This question type is not graded on this system and will not affect the final score as it was designed in such a way that it requires manual assistance.

Question 48 of 49

Primary 5 Science (Term 2)

0 pts

Janet wanted to scoop some hot rice for dinner. When she opened the lid of the rice cooker, a "white cloud" formed as shown below.



The "white cloud" disappeared after some time and she was able to scoop the rice. Give a reason why the "white cloud" disappeared. (1 mark)

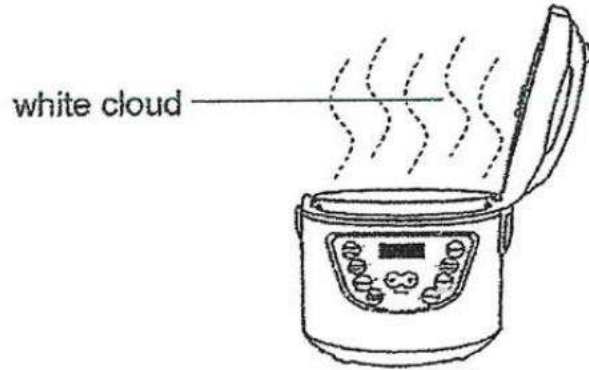
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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 49 of 49

Primary 5 Science (Term 2) 0 pts

Janet wanted to scoop some hot rice for dinner. When she opened the lid of the rice cooker, a "white cloud" formed as shown below.



Once the rice was fully cooked, Janet's mum turned off the switch. She also told Janet to close the lid of the rice cooker once she had finished scooping the rice. Explain how this action helps to keep the rice in the rice cooker warm. (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.
