Test:	Primary 5	Science	(Term 2)	- RGS

Points: 69 points

Name:

Score: _____

Date: _____

Signature: _____

Select multiple choice answers with a cross or tick:

Only select one answer

Can select multiple answers

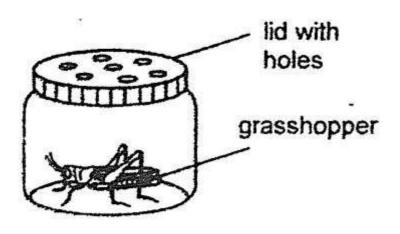
Question 1 of 64

For each question, four options are given. One of them is the correct answer, make your choice (A, B, C or D) and choose the correct answer. (28 x 2 marks)

Roy caught a grasshopper and wanted to keep it. He prepared four set-ups, A, B, C and D, to try to keep it.

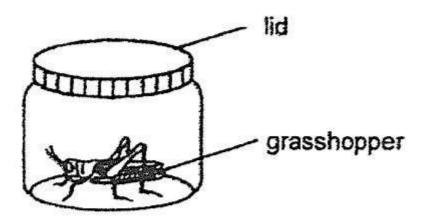
Which one of the set-ups, A, B, C or D, should he use to keep the grasshopper alive for the longest time?

A



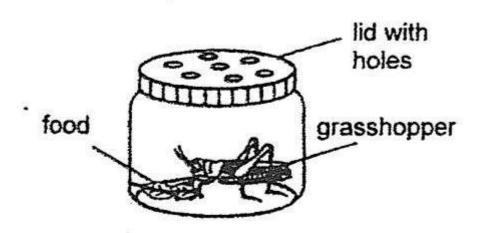
Set-up A

ОВ)



Set-up B

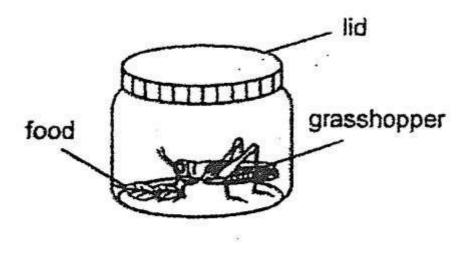
OC)



Set-up C

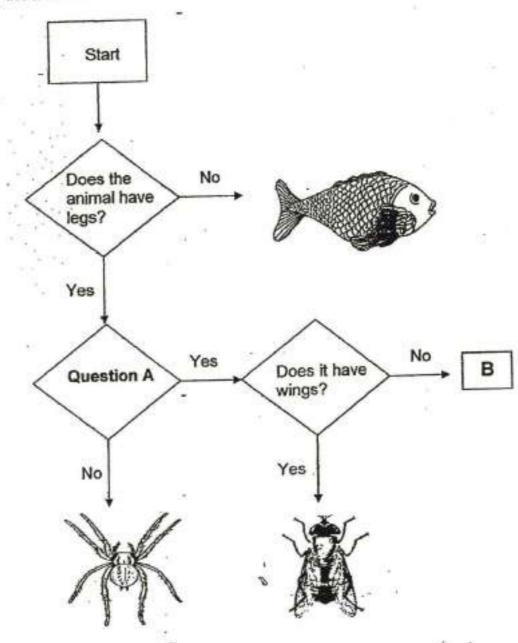
() D)

٠

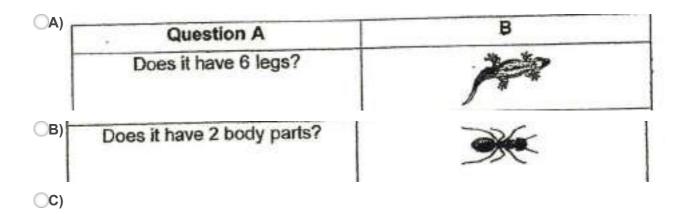


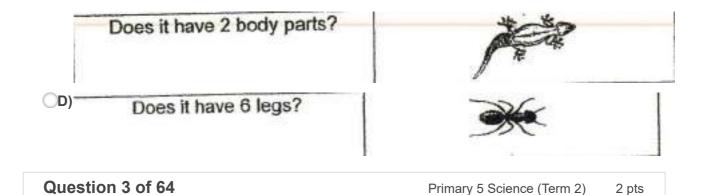
Set-up D

Study the flow chart below.



Which one of the following is correct?





The table below shows the characteristics of animals W, X, Y and Z.

Animal	Has outer covering of hair	Lays eggs	Has wings	Has 3 body parts
W		1	· ·	1
x	1	1	· ·	
Y	1		1	
Z		. /	1	1

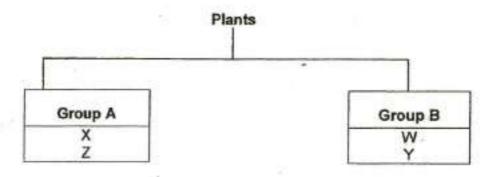
Based on the table above, which of the following statement(s) is/are possibly true?

- A Animal W is an insect.
- B Only animal X is a mammal.
- C Both animals Y and Z are birds.
- D Animal W is an insect but animal Y is a mammal.
- A) B only
- **B**) A and D only
- C) B and C only
- **D**) A, B and C only

Plants W, X, Y and Z have common characteristics as shown in the table below. A tick (I) in the box indicates the presence of such a characteristic.

Characteristic					
Plant	W	x	Y	z	1
Produces flowers	1		1		
Bear edible fruits	1				
Reproduces by spores		1		1	

Using the information above, John grouped the plants in the classification table below.



What are the suitable sub-headings for Group A and Group B?

-						
○ A)	Group A	Group B	3			
	moss	ferns				
ОВ)	Group A	Group	B			
	or oup //	oroup				
	bears fruit	does n	ot	bear fruit		
\bigcirc \bigcirc			1			-1
() C)	Group A		G	roup B		
	bears edib	ole fruits	b	ears inedi	ble fruits	s
				1		1
OD)	Group A			Group B		
	non-flowe	ring plan	ts	flowering	plants	

Which one of the following statements is true about micro-organisms?

- A) Micro-organisms are not living things.
- **B**) Some micro-organisms are useful to us.
- **C)** All micro-organisms can make their own food.
- **D**) Micro-organisms can only grow in an environment with a temperature of more than 25°C.

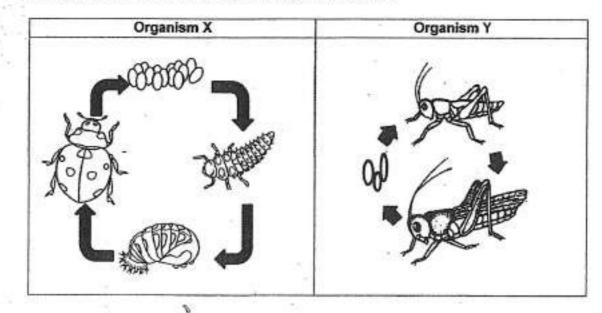
Question 6 of 64Primary 5 Science (Term 2)2 pts

Which one of the following statements is true about life cycles?

- **A**II animals have three-staged life cycles.
- **B**) A life cycle of an animal begins with an egg.
- **C)** The young of an organism inherits characteristics from its parent.
- **D**) The life cycle of a young of an organism is different from its parents.

Question 7 of 64

The diagram below shows the life cycle of organisms X and Y.



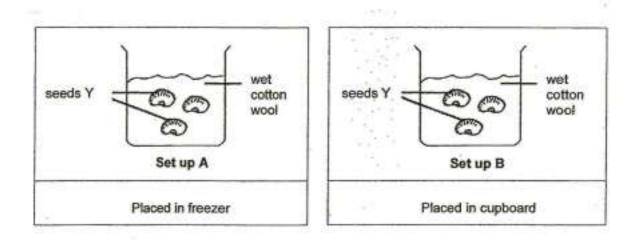
Based on the information in the diagrams above, which of the following statement(s) is/are true?

- A The adults of organisms X and Y live on land.
- B Organisms X and Y give birth to their young alive.
- C The young of organism X does not look like its parent.
- D Organisms X and Y go through the same stages in their life cycles.
- **A**) C only
- **B**) A and D only
- **C**) B and D only
- **D**) A, B and C only

Question 8 of 64

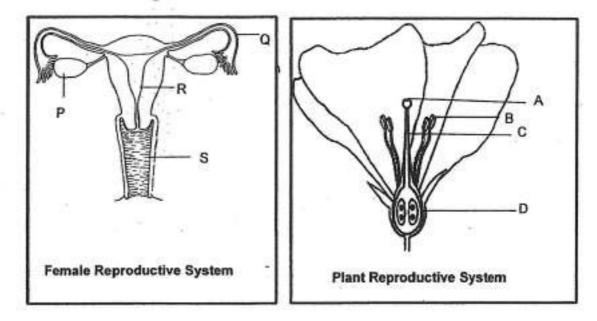
16

Chris prepared set-ups A and B using similar seeds Y and placed them in different locations as shown below.



Based on the information above, which of the following statement(s) is/are likely to be correct?

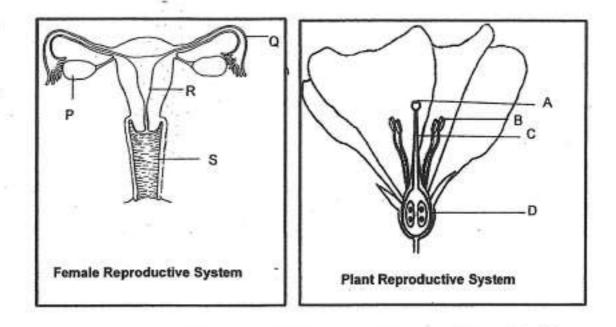
- A Seeds in set-up A will germinate because there is water.
- B Seeds in set-up A will not germinate as there is no warmth.
- C Seeds in set-up B will not germinate as there is no sunlight.
- D Seeds in set-up B will germinate as there is water, oxygen and warmth.
- **A**) A only
- **B**) Donly
- **C**) A and C only
- **D**) B and D only



The diagrams below show the reproductive system of a human and a plant respectively.

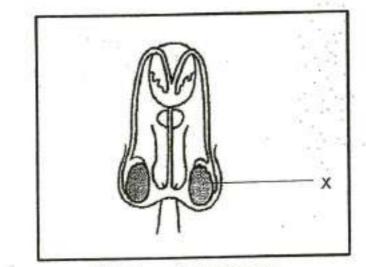
Which of the following represents the part where the fertilized egg will develop?

○ A)	Female Reproductive System	Plant Reproductive System
	Р	A
○В)	Female Reproductive System	Plant Reproductive System
	Р	В
() C)	Female Reproductive System	Plant Reproductive System
	Q	D
() D)	Female Reproductive System	Plant Reproductive System
	R	D



The diagrams below show the reproductive system of a human and a plant respectively.

Which one of the following parts in the plant reproductive system has the same function as part X in the male reproductive system?



Male Reproductive System

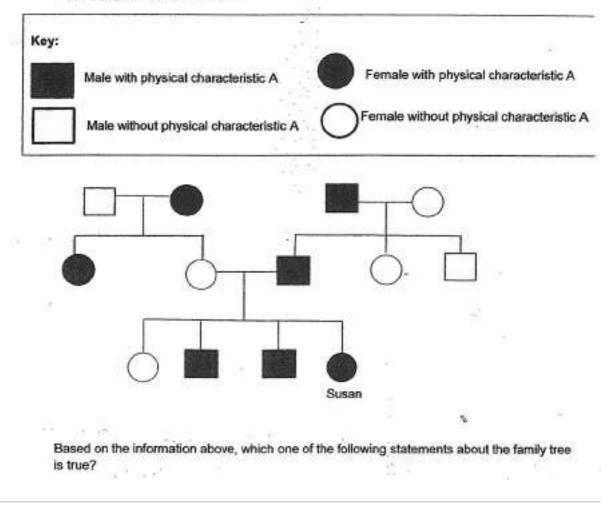
A) A

ł

- **В)** В
- **○C**) C
- OD) D

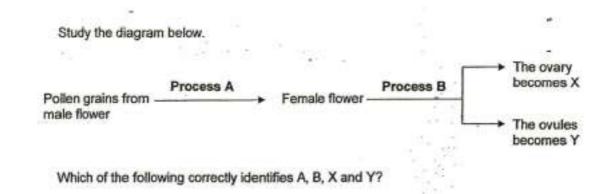
Question 11 of 64

Study the family tree of Susan below. The family tree shows the members of the family who display physical characteristic A.



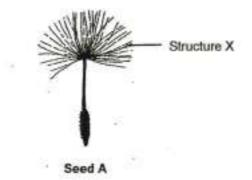
- **A**II of Susan's siblings have characteristic A.
- **B**) Susan's uncle has physical characteristic A.
- **C)** Susan's aunts do not have physical characteristic A.
- **D**) Susan inherited physical characteristic A from her father.

Question 12 of 64



○ A)	Α	В	Х	Y
	fertilisation	pollination	fruit	seed
ОВ)	Α	В	Х	Y
	fertilisation	pollination	seed	fruit
() C	Α	В	Х	Y
	pollination	fertilisation	fruit	seed
O D)	Α	В	X	Y

Lily wanted to find out how structure X of seed A below helps it to disperse. She dropped the seed from a height of ten metres and recorded the time taken for the seed to land on the ground. She then repeated the experiment with structure X removed.



Which one of the following sets of results is most likely to be correct?

A) Time taken for the seed to land on the ground (seconds)

Seed A (with structure X)	Seed A (without structure X)
7.5	5.8

B) Time taken for the seed to land on the ground (seconds)

Seed A (with structure X)	Seed A (without structure X)
7.5	7.5

C) Time taken for the seed to land on the ground (seconds)

Seed A (with structure X)	Seed A (without structure X)
5.8	7.5

OD) Time taken for the seed to land on the ground (seconds)

Seed A (with structure X)	Seed A (without structure X)
6.0	6.5

Some pollen grains were dusted on flowers A, B, C and D grown on a plant.



Flower A



Flower B





Flower D

Which of the following flowers would most likely to develop into a fruit?

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

Question 15 of 64

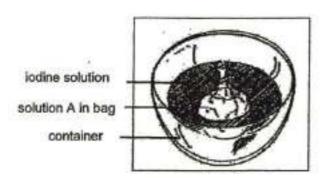
Primary 5 Science (Term 2) 2 pts

Which one of the following parts of a cell supports and protects the cell?

- **A**) nucleus
- **B**) cell wall
- **C**) cytoplasm
- **D**) cell membrane

All placed solution A into a plastic bag and fastened it securely. He placed the bag into a container of iodine solution as shown in the diagram below.

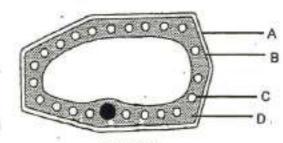
lodine solution is a yellowish-brown solution which will turn blue-black when it interacts with starch.



He recorded his observations in the table below.

	At the start of the experiment	At the end of the experiment
Colour of Solution A in plastic bag	white	blue-black
Colour of iodine solution in container	yellowish-brown	yellowish-brown

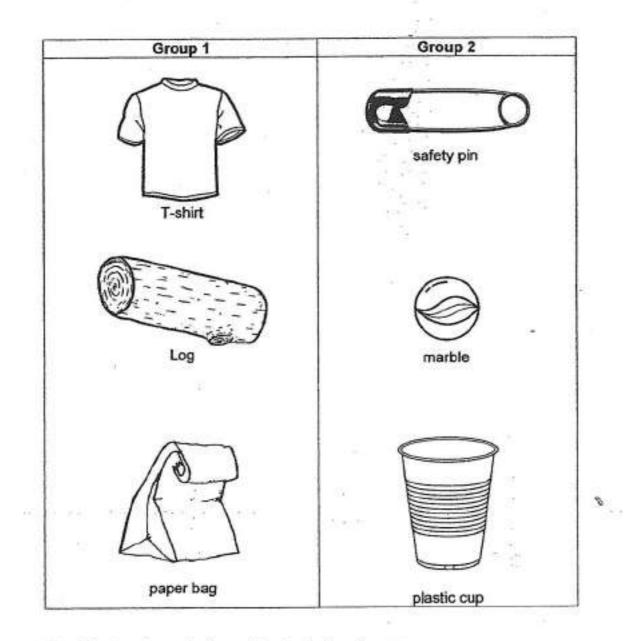
Which one of the following parts of a plant cell has the same function as the bag?



Plant cell

- **A**) A
- **В)** В
- **○C**) C
- O**D**) D

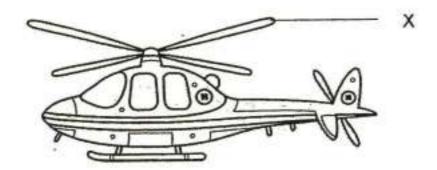
Six objects are classified into two groups as shown below.



The objects are grouped according to whether they are _____

- **A**) flexible
- **B**) waterproof
- ○C) transparent
- OD) able to float in water

The diagram below shows part X of a helicopter.



Study the properties of the following materials shown below.

	Property of material				
Material	Flexible	Waterproof	Strong	Floats on water	
A	1	1	1		
В		1	1		
C	1-	1		1	
D		11		1	

Which material is most suitable for making part X of the helicopter?

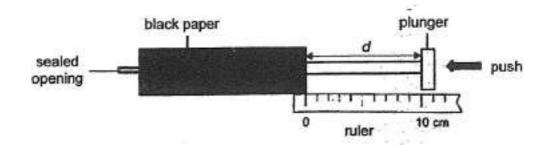
A (A

В) В

○C) C

OD) D

Elleen used two identical syringes and filled them up completely with substances X and Y respectively. Each syringe was covered with black paper as shown in the diagram below.

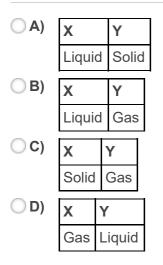


She pushed the plunger as hard as she could. She then recorded the distance, d, in the table as shown below.

Syringe filled with	Distanc	e, d (cm)
Substance	Before	After
X	10	4
Y	10	10

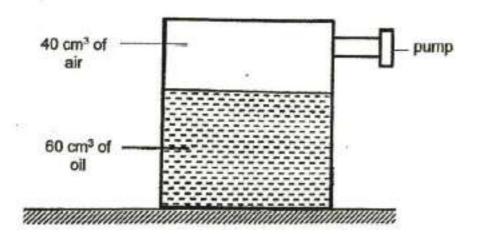
×

Which one of the following represents the states of matter of substances X and Y?



Question 20 of 64

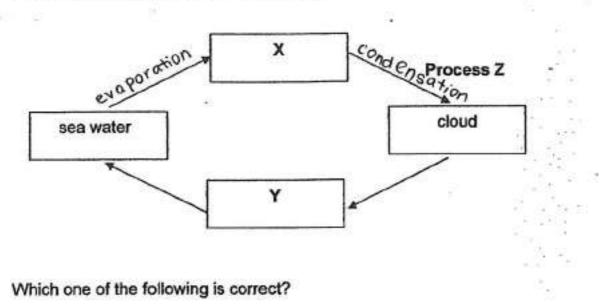
A sealed container holds 60cm³ of oil and 40cm³ of air as shown below. Another 10 cm³ of oil and 20 cm³ of air is added to the container through the pump.



What is the final volume of oil and air in the container?

-		
◯ A)	Volume of oil (cm ³)	Volume of air (cm ³)
	70	60
ОВ)	Malana af all (and 3)	Malana af air (arr3)
	Volume of oil (cm ³)	volume of air (cm [°])
	60	40
\bigcirc		
() C)	Volume of oil (cm ³)	Volume of air (cm ³)
	70	40
(U)	Volume of oil (cm ³)	Volume of air (cm ³)
	70	30

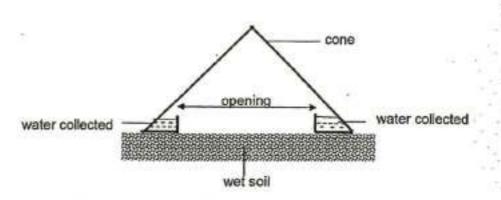
The diagram below shows the water cycle.



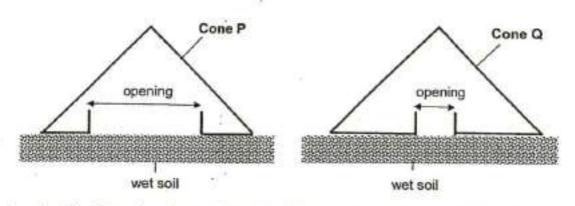
(A (X		Υ	Process Z	
	wate	water vapour		evaporation	
В)	Χ	Y		Process Z	
	rain	water vapour		condensation	
() C	X	Y		Process Z	
() C)	~	Y water va	pour	Process Z evaporation	
○ C) ○ D)	~	Y water va	pour Y		

Question 22 of 64

Hannah had a plastic cone that was used to collect water from the environment. The diagram below shows how the cone works.



On a hot day, Hannah placed two such cones, P and Q, on wet soil. Cones P and Q were similar but P had a larger opening at the base than Q. Hannah left the cones overnight and collected the water the following morning.



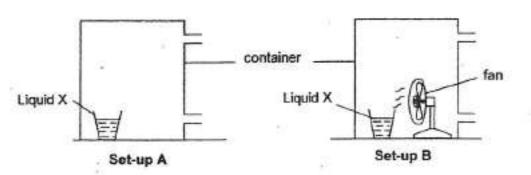
Based on the information above, which of the following statement(s) is/are likely to be true?

- A The air inside both cones lost heat and condensed.
- B The water vapour outside the cones condensed and collected in the cones,
- C There was more water vapour inside cone P which lost heat and condensed.
- D There was a smaller exposed surface area of water inside cone Q hence less water lost heat and condensed.
- A) Conly
- **B**) A and C only
- C) B and D only
- **D**) A and D only

Substance X is a solid at 40°C and a liquid at 300°C. Which one of the following shows the possible melting and boiling point of X?

0.41		1
◯ A)	0	0
	Melting point of X (C)	Boiling point of X (C)
	25	170
⊖В)	Melting point of X (C)	Boiling point of X (C)
	30	400
() C)	Melting point of X (C)	Boiling point of X (C)
	50	250
O D)	Melting point of X (Boiling point of X (C)
	65	310

Alvin carried out the experiment as shown below. 50 ml of Liquid X at 30°C was placed in the same room.

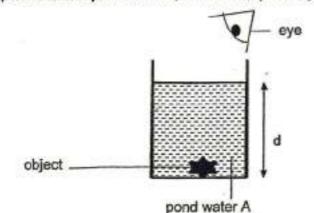


After five hours, Alvin compared the amount of liquid left in each glass. He observed that the two liquids were less than before.

Which of the following explain(s) his observations after five hours?

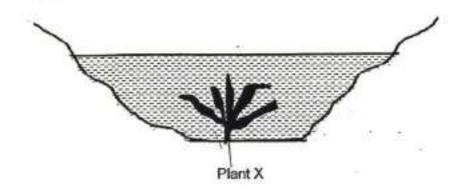
- A There was more water vapour in set-up B so liquid X evaporated faster.
- B There was lesser amount of liquid X left in set-up B than A as it evaporated faster due to the presence of wind from the fan.
- C There was less amount of liquid X left in set-up A then B as it gained more heat from the higher surrounding temperature and evaporated faster.
- **A**) A only
- **B**) B only
- **C**) A and B only
- **D**) A, B and C

Dolly collected water from four ponds A, B, C and D. She put an object into a beaker. Then she poured water from pond A slowly into the beaker until she could not see the object and recorded the water level, *d*, in the result table shown. She repeated the experiment with pond water B, C and D respectively.



Water level , d (cm)
24
5
16
42

Plant X grows at the bottom of the pond. It requires plenty of sunlight in order to grow well.

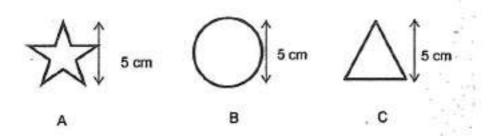


Based on the information above, in which pond would plant X most likely grow best in?

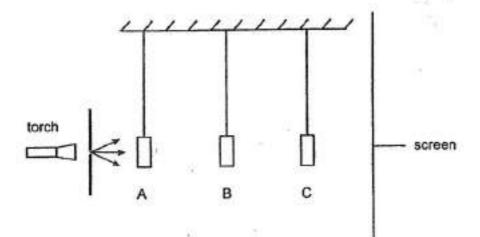
- **○A)** A
- **В)** В
- **○C**) C
- OD) D

4

Tim cut out three shapes, A, B and C, which were made of different materials as shown below.



He hung the three shapes in different positions in the set-up below.



The following diagram shows the shadows formed on the screen when the torch was switched on.



Based on the above observation, which one of the following most likely matches the shapes A, B and C to the properties?

() A)	Opaque	Translucent	Not possible to tell
	А	В	С
ОВ)	Opaque	Translucent	Not possible to tell
	В	А	С
(⊂ C)	Opaque	Translucent	Not possible to tell
	В	С	А
() D)			

1	Opaque	Translucent	Not possible to tell
	С	В	А

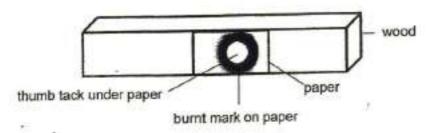
Question 27 of 64

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The diagram below shows a thumb tack.



Stan nailed thumb tack X to the wood as shown in the diagram below. He wrapped paper over the thumb tack. Then, he placed a candle flame near the thumb tack and recorded the time taken for the burnt mark to first appear on the paper. He repeated the experiment with similar thumb tacks, Y and Z, made of different materials.



Stan recorded his results in the table below.

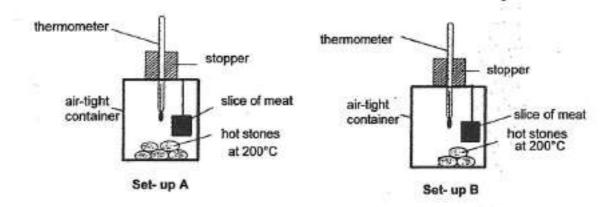
Material	Time taken for the	Time taken for the burnt mark to first appear (seconds)	
X	+ x + x	29	
Y	-	12	
Z		20	

100

Based on the information above, which of the following correctly shows the 3 materials arranged from the best to the poorest conductor of heat?

() A)	Best conductor of heat		Poorest conductor of heat
	Х	Y	Z
ОВ)	Best conductor of heat		Poorest conductor of heat
	Х	Ζ	Y
(C) (Best conductor of heat		Poorest conductor of heat
	Y	Х	Z
() D)	Best conductor of heat		Poorest conductor of heat
	Z	Х	Y

Sally prepared two set-ups, A and B. The air inside the container was 28°C. She hung identical slice of meat in each container. Then she placed some hot stones which were heated to 200°C and placed them inside each air-tight container as shown below.



Which of the following observation and corresponding explanation is most likely correct?

○ A)	Observation			Explanation
	The temperature of air in both containers would rise to the sam temperature.		ne	The air in each container gained the same amount of heat from the hot stones.
⊖В)	Observation	Ex	planation	
	Slice of meat in set-up A cooked faster.			ined more heat from the hot stones as it is hot stones.
() C)	Observation		Explanat	ion
	Slice of meat in set-up B cooked slower.			t gained less heat as there was lesser not stones.
O D)	Observation	servation Explanation		
			ot stones i	neat gained the same amount of heat as n each containers are of the same

Question 29 of 64

Tina wanted to find out the conditions that affected the growth of bread mould. She put water on different types of bread and recorded the conditions in the table below.

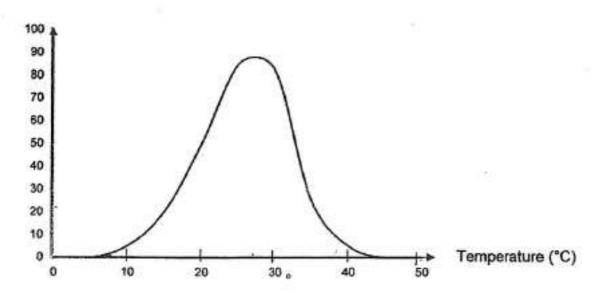
Set-up	up Type of Number of days bread before mould appears		Temperature of surrounding air (°C)	Amount of water on bread (m?)
1	. A	9	30 _	0
2	В	8.	5	4
3	с	- 7	0	4
4	D	4 .	30	20

Which two set-ups should Tina compare to find out the effect of water on the growth of bread mould?

Tina wanted to find out the conditions that affected the growth of bread mould. She put water on different types of bread and recorded the conditions in the table below.

Set-up	p Type of Number of days bread before mould appears		Type of bread	before mould	Temperature of surrounding air (°C)	Amount of water on bread (m?)
1	. A	9	30 _	0		
2	В	8.	5	4		
3	с	. 7	0	4		
4	D	4 .	30	20		

Tina plotted a graph which shows how the growth rate of bread mould changes with temperature below.



Based on the graph above, state the temperature that is most favourable for the bread mould to grow.

Amount of bread mould

Tina wanted to find out the conditions that affected the growth of bread mould. She put water on different types of bread and recorded the conditions in the table below.

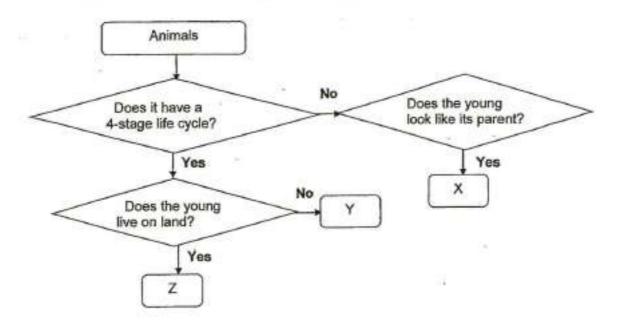
Set-up	Type of bread	Number of days before mould appears	Temperature of surrounding air (°C)	Amount of water on bread (m?)
1	. A	9	30 .	0
2	В	8.	5	4
3	с	- 7	0	4
4	D	4 .	30	20

How do mould and mushrooms reproduce? (1 mark)

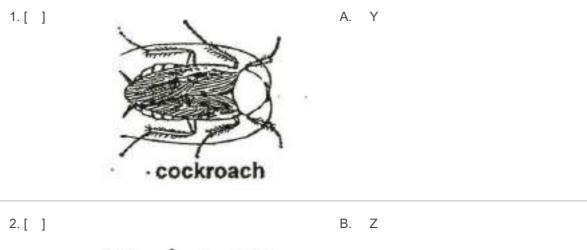
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Question 32 of 64

Siti classified three animals using the flow chart below.



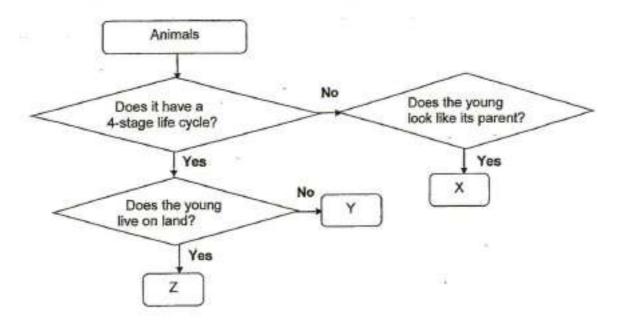
Match the insect with letters X, Y or Z.







Siti classified three animals using the flow chart below.

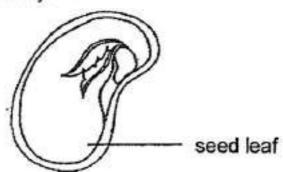


Based on the flowchart, state one similarity and one difference between the animals Y and Z. (2 marks)

Similarity:	
Difference:	

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.

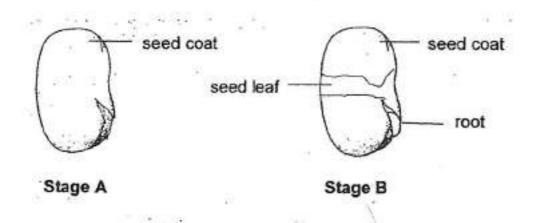
Study the diagram below carefully.



What is the function of the seed leaf? (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.

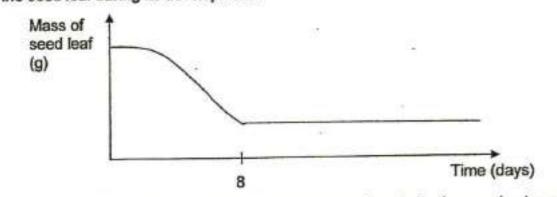
Two stages, A and B, in the germinating process of a seed are shown below.



Give a reason for the increase in the mass of seed from Stage A to Stage B. [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.

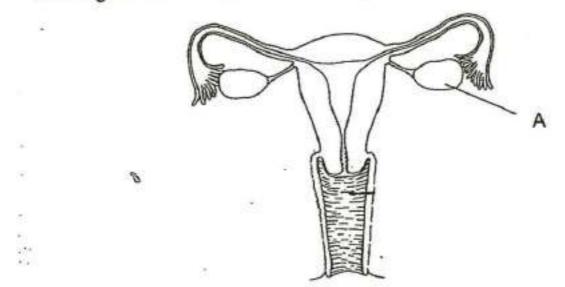
The following shows an incomplete graph showing the change in the mass of the seed leaf during its development.



It was observed that green leaves emerge on day 8. In the graph above, continue the graph to show the change in the mass of the seed leaf from day 8 onwards. [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.

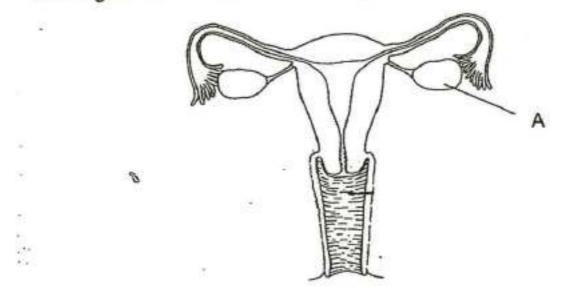
The diagram below shows a female reproductive system.



If part A in the diagram above was removed, can the female still reproduce? Give a reason for your answer. (2 marks)

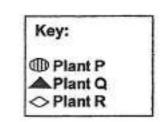
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

The diagram below shows a female reproductive system.



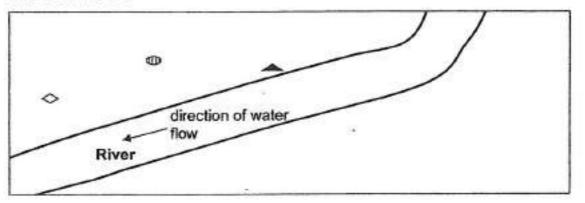
Label with an 'X' in the diagram to show the part which receives the male reproductive cells. (1 mark)

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.

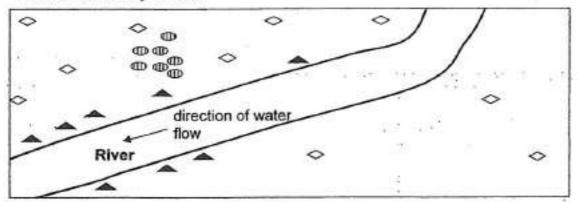


First observation

.

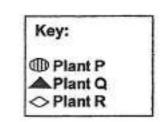


Observation one year later



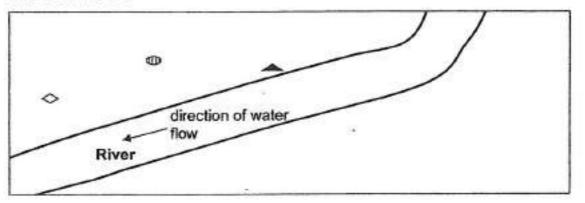
Based on the diagram, state the method of seed dispersal of plant P in the table below.

Plant	Ρ
Method of seed dispersal	Ву

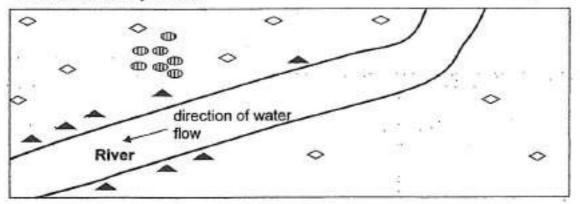


First observation

. .

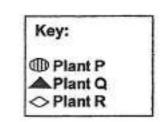


Observation one year later



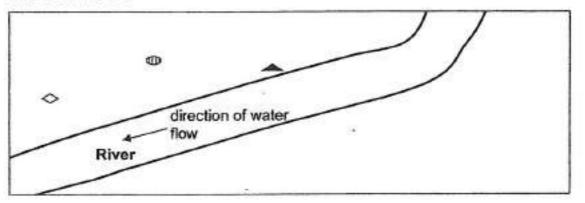
Based on the diagram, state the method of seed dispersal of plant Q in the table below.

Plant	Q
Method of seed dispersal	Ву

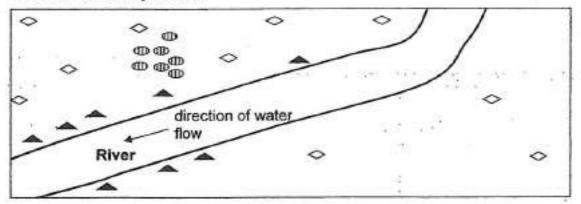


First observation

. .

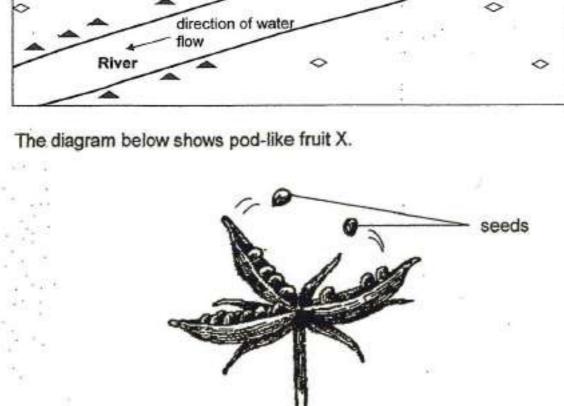


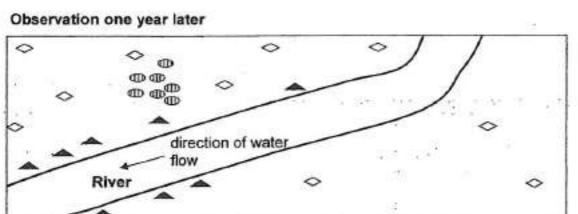
Observation one year later

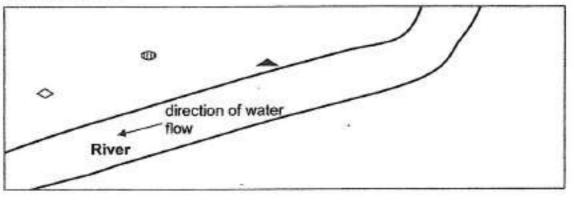


Based on the diagram, state the method of seed dispersal of plant R in the table below.

Plant	R
Method of seed dispersal	Ву

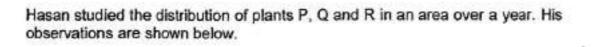






First observation

.



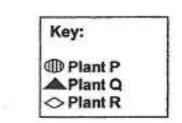
Key:

Plant P
Plant Q

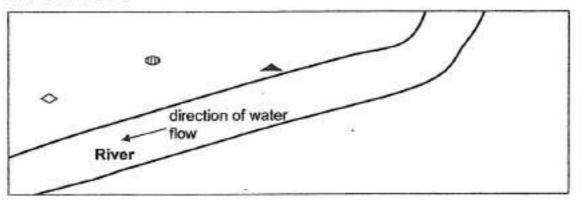
○ Plant R

fruit X

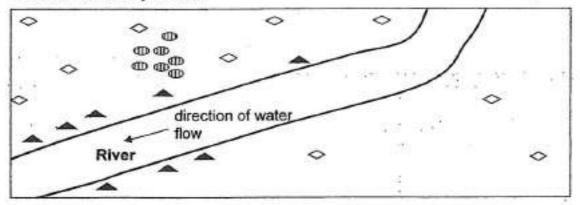
Which of the plants P, Q or R would produce fruit X? Give a reason for your answer.



First observation



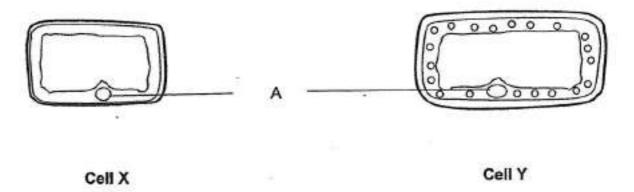
Observation one year later



The young of plant R grow healthier than those of plant P. Based on the information in the diagram, explain clearly why the method of seed dispersal of plant R has an advantage as compared to plant P. (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.

The diagrams below show two plant cells, X and Y.



What is the function of part A in Cells X and Y? (1 mark)

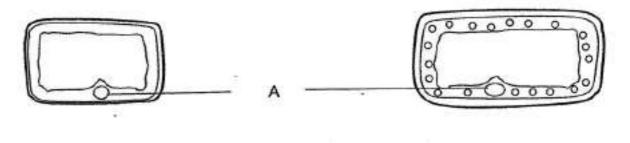
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

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.

Question 45 of 64

Primary 5 Science (Term 2) 0 pts

The diagrams below show two plant cells, X and Y.



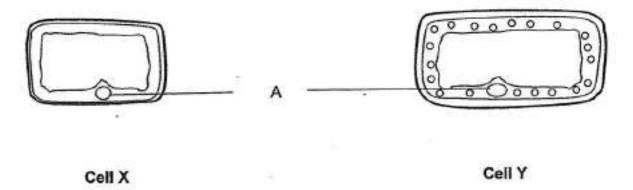
Cell X

Cell Y

State one similarity 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.

The diagrams below show two plant cells, X and Y.

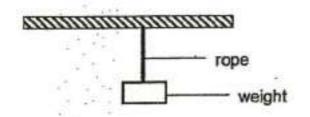


Which cell, X or Y is taken from the leaf? Give a reason for your answer.

Question 47 of 64

Primary 5 Science (Term 2) 1 pt

Mrs Lee tested the strength of three types of ropes, X,Y and Z, by hanging weights onto each of them . She added the weights hung onto the rope one by one until the rope started to break.



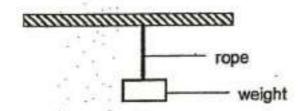
The maximum weight that the ropes could hold is shown in the table below.

Ropes	X	Y	Z
Maximum weight the rope can hold before it starts to break (kg)	13	100	80

Arrange the ropes, X, Y and Z starting with the strongest rope.

4

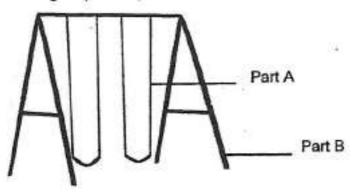
Mrs Lee tested the strength of three types of ropes, X,Y and Z, by hanging weights onto each of them . She added the weights hung onto the rope one by one until the rope started to break.



The maximum weight that the ropes could hold is shown in the table below.

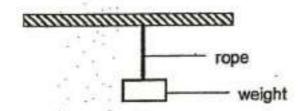
Ropes	X	Y	Z
Maximum weight the rope can hold before it starts to break (kg)	13	100	80

⁻Mrs Lee wanted to make a pair of swings and placed them in her garden for her children of mass 20 kg and 14 kg respectively.



Which rope X, Y or Z should Mrs Lee choose to make part A of her swings? Explain your answer clearly. (2 marks)

Mrs Lee tested the strength of three types of ropes, X,Y and Z, by hanging weights onto each of them . She added the weights hung onto the rope one by one until the rope started to break.



The maximum weight that the ropes could hold is shown in the table below.

Ropes	X	Y	Z
Maximum weight the rope can hold before it starts to break (kg)	13	100	80

The properties of materials P, Q and R are as shown in the table below.

A tick (1) shows the presence of the property.

Materials Properties	P	à	R
Strong	1	1	
Flexible	1		
Waterproof	1	1	1

Is material P suitable material to be made into part B of the swing? Explain your answer clearly. [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.

tap retort stand stopper tank glass container

Harry prepared an experimental set-up as shown below.



At first, the tank was empty. Harry turned on the tap to fill the tank with water completely as shown in the diagram below.

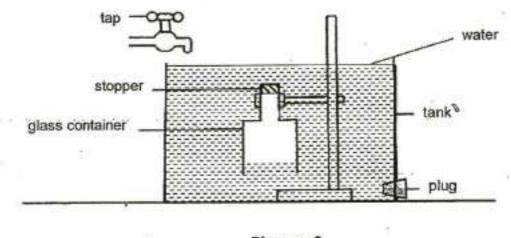
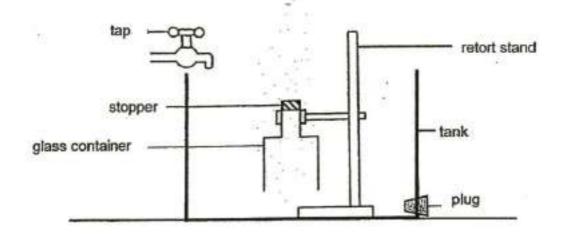


Diagram 2

Harry observed that the water did not fill the glass container completely to the top where the stopper was. Explain his observation. (2 marks)

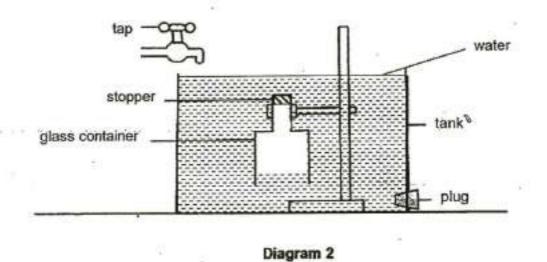
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Harry prepared an experimental set-up as shown below.





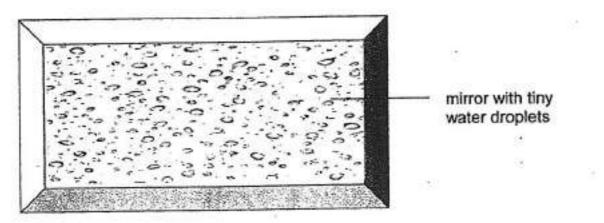
At first, the tank was empty. Harry turned on the tap to fill the tank with water completely as shown in the diagram below.



Describe what would happen to the water level in the tank if the stopper on top of the glass container was removed. Explain your answer clearly. (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.

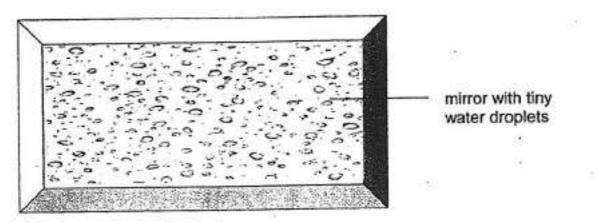
After John had a hot shower, he observed that the mirror in the bathroom was fogged up with tiny water droplets as shown in the picture below.



Explain how the water droplets on the mirror were 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.

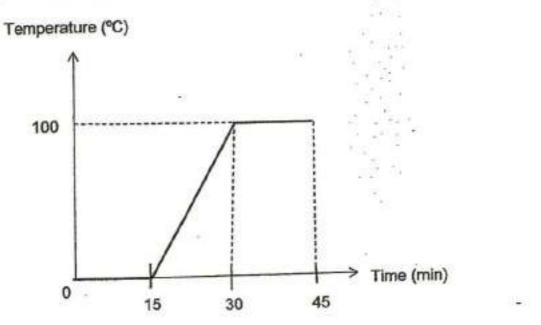
After John had a hot shower, he observed that the mirror in the bathroom was fogged up with tiny water droplets as shown in the picture below.



John used a hair dryer and blew on a part of the fogged up mirror. It was observed that part of the misty mirror that was blown on became clear again. Explain this observation clearly. (1 mark)

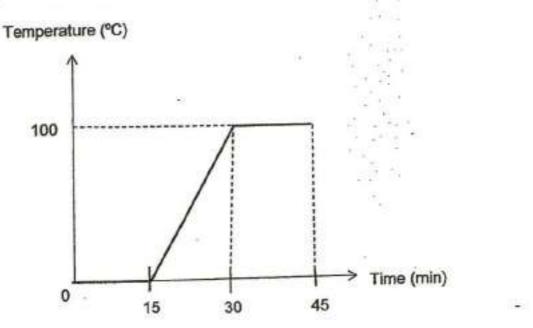
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Mary heated a beaker of ice over a period of time. The graph below shows the change in temperature of the ice as it was being heated.



Based on the graph above, how long did it take for the ice to melt completely?

Mary heated a beaker of ice over a period of time. The graph below shows the change in temperature of the ice as it was being heated.

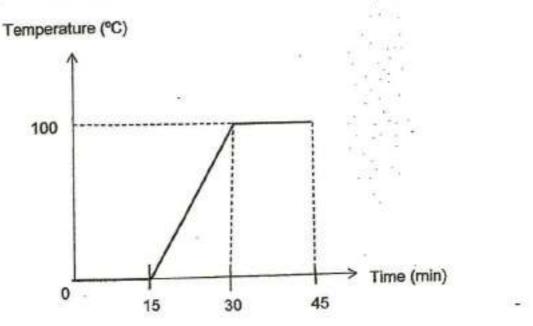


What would happen to the temperature of the water if the beaker of water was removed from

the heat source at 100 C and placed on a table in the room after one day? (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.

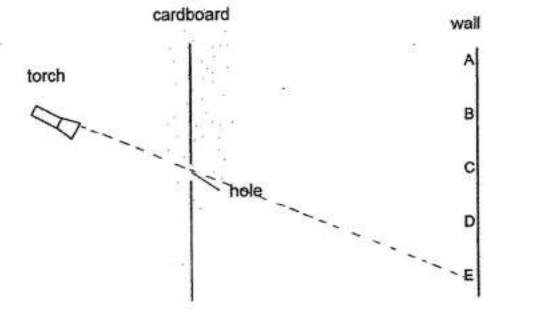
Mary heated a beaker of ice over a period of time. The graph below shows the change in temperature of the ice as it was being heated.



Mary observed a decrease in the amount of water in the beaker after one day. Give a reason for her observation. (1 mark)

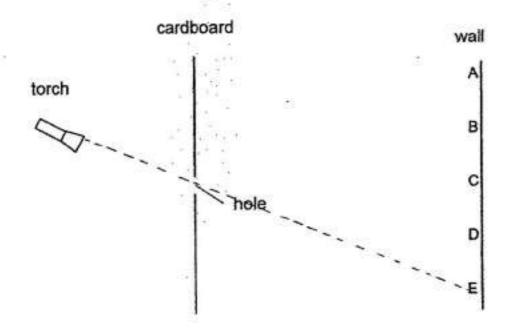
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

Siew Lee prepared an experiment set-up shown below. Light from the torch passes through the hole in the cardboard and forms a bright spot on the wall.



Which part on the wall, A, B, C, D or E, will a bright spot of light be formed? (1

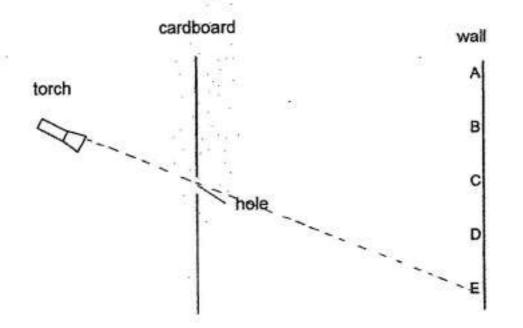
Siew Lee prepared an experiment set-up shown below. Light from the torch passes through the hole in the cardboard and forms a bright spot on the wall.



State a property of light that explains your answer in the previous question. (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.

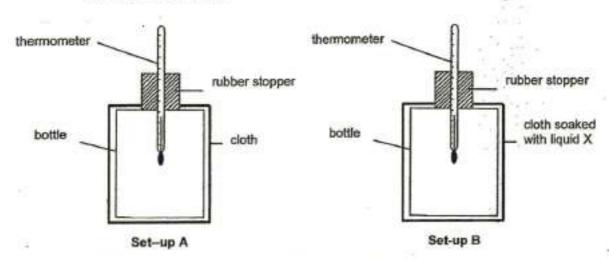
Siew Lee prepared an experiment set-up shown below. Light from the torch passes through the hole in the cardboard and forms a bright spot on the wall.



Without moving the positions of items in the set-up above, suggest what Siew Lee could do so that a larger area of bright spot of light would be formed on the wall. (1 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.

Ashlyn set up an experiment as shown below. She wrapped the bottles with identical pieces of cloths.



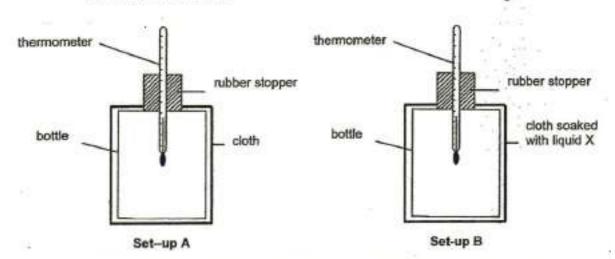
She recorded the change in the temperature of air in Set-ups A and B in the table below.

	Temperature of air in the bottle (°C)		
Set-up	At first	After 20 minutes	
A	30	30	
В	30	25	

Based on the information above, what happened to the temperature of air in bottle B after 20 minutes? (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.

Ashlyn set up an experiment as shown below. She wrapped the bottles with identical pieces of cloths.



She recorded the change in the temperature of air in Set-ups A and B in the table below.

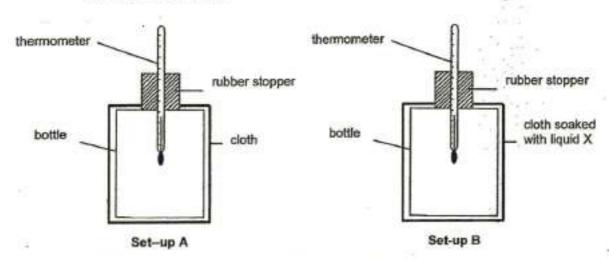
	Temperature of air in the bottle (°C)		
Set-up	At first	After 20 minutes	
A	30	30	
B	30	25	

Ashlyn wiped her hands with a piece of tissue paper which was soaked with liduid X. After a while, her hands felt cooler than before.

Explain why Ashlyn's hands felt cooler.

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.

Ashlyn set up an experiment as shown below. She wrapped the bottles with identical pieces of cloths.

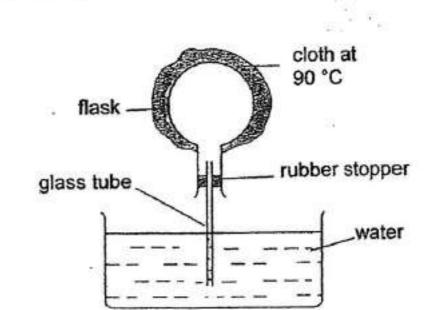


She recorded the change in the temperature of air in Set-ups A and B in the table below.

	Temperature of air in the bottle (°C)	
Set-up	At first	After 20 minutes
A	30	30
В	30	25

Without using any equipment, what could Ashlyn do to increase the rate of evaporation of liquid X on her hands?

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.



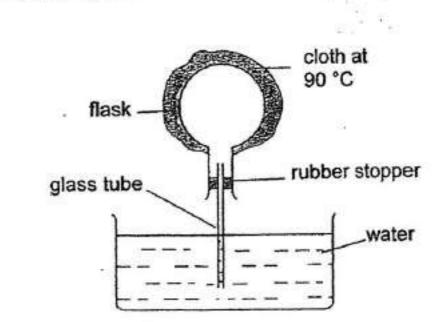
Steven observed bubbles escaping into the water from the glass tube after few seconds. Give a reason for his observation. (1 mark)

10

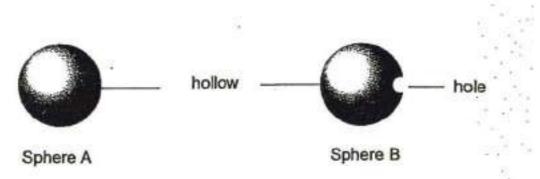
This question is designed for extended answers that parent/ teacher will have to assign and guide child to attempt after the test has been completed.

10

Steven set up the experiment below.



Steven moulded two pieces of clay into two hollow spheres as shown below.



He placed the two pieces of dried clay spheres into a kiln and fired them at high temperature. During the firing process, it was observed that one of the spheres cracked into pieces but not the other one.

(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.