Rosyth School
Weighted Assessment 2025 (Term Two)
SCIENCE
Primary 5

Name: _____ Total Marks: ____/____

Class: Pr 5 _____ Register No. _____

Date: _____ May 2025

Duration: Total Time for Booklets A and B: 50 minutes

Booklet A

Instructions to Pupils:

1. Do not open the booklet until you are told to do so.

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For each question from 1 to 12, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and shade your answer on the Optical Answer Sheet.

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1 Which statement about cells is true?

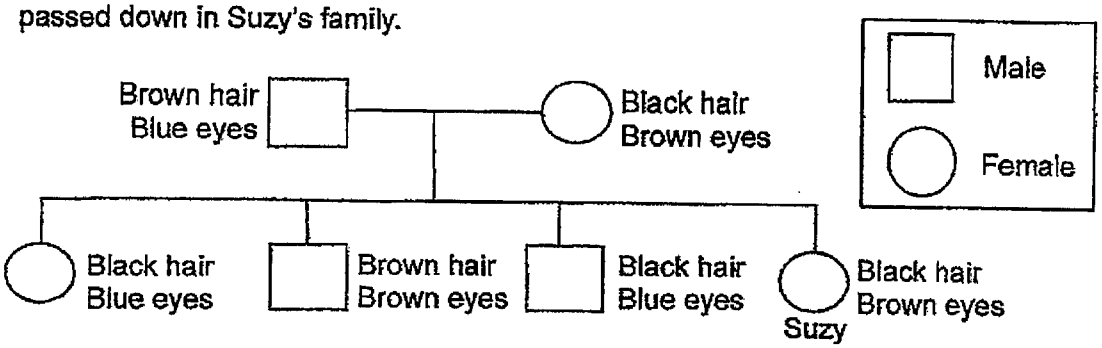
(1) Non-living things are made of cells.

(2) Cells can be seen with the naked eye.

(3) All cells are of the same shape and size.

(4) Cells are the basic building blocks of life.

2 The model below shows some information about how some characteristics are passed down in Suzy's family.



Which of the following statement is true?

(1) The colour of Suzy's hair is passed down from her father.

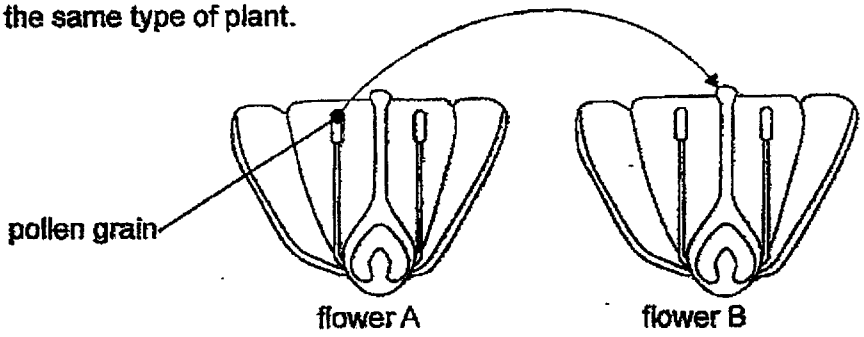
(2) The colour of Suzy's eyes is passed down from her mother.

(3) The colour of Suzy's eyes is passed down from her siblings.

(4) Suzy's eye colour is not a characteristic that is passed down from her parents.

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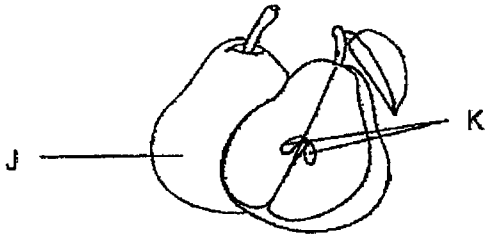
3 The diagram below shows the cross-section of flowers, A and B, which are found on the same type of plant.



Which process does the arrow in the diagram represent?

(1) pollination
(2) fertilisation
(3) germination
(4) seed dispersal

4 A brightly coloured fruit was cut open as shown below.



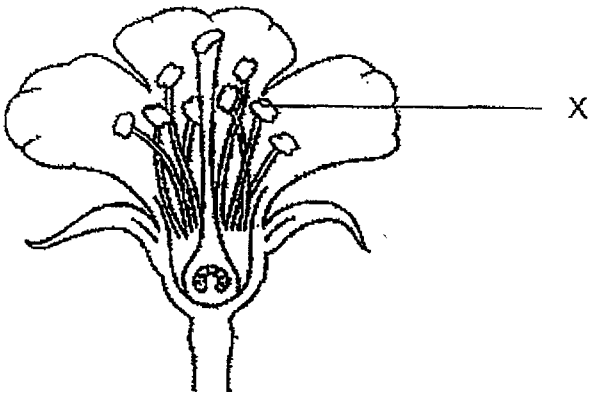
Which of the following statements are correct?

A K would be dispersed by water.
B J was developed from the ovary.
C J and K were developed from a flower.
D There was only one ovule in the flower.

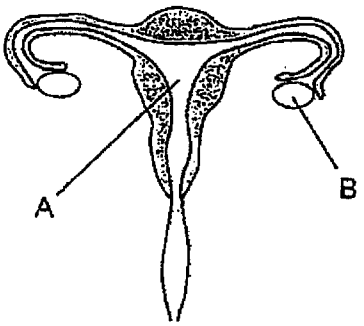
(1) A and C only
(2) B and C only
(3) A, B and D only
(4) B, C and D only

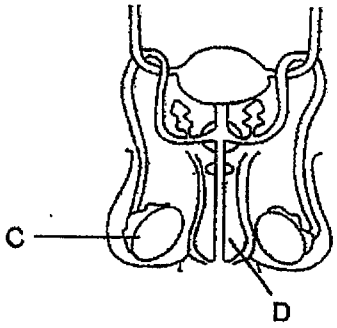
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5 Below is a diagram of a flower.



Which part of the human reproductive system below has a similar function as part X?

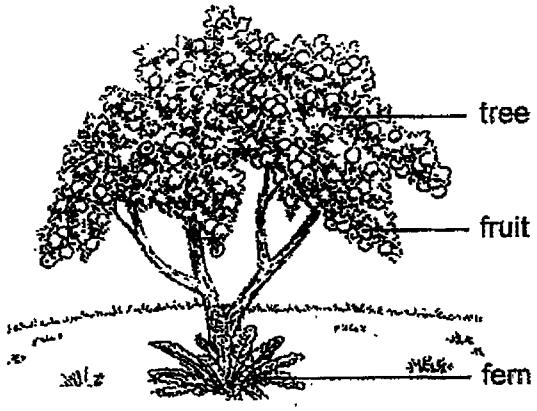




(1) A
(2) B
(3) C
(4) D

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6 The diagram below shows a fern growing near a tree.



In what way(s) is/are the fern and tree similar?

A Both reproduce by seeds.

B Both make their own food.

C Both have roots to absorb water and mineral salts.

(1) A only

(2) C only

(3) A and B only

(4) B and C only

7 Water exists in three states: solid, liquid and gas.

Which of the following scenario shows water in <u>one</u> state only?

(1) A puddle of water under the sun

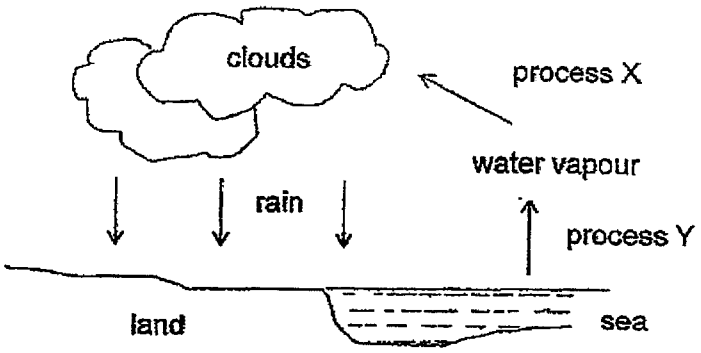
(2) A tray of ice that is left in the freezer

(3) A beaker of water boiling on the stove

(4) An ice cube that is left on the classroom table

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8 The diagram below shows the water cycle.



Which of the following statement is correct?

(1) Process X is evaporation.

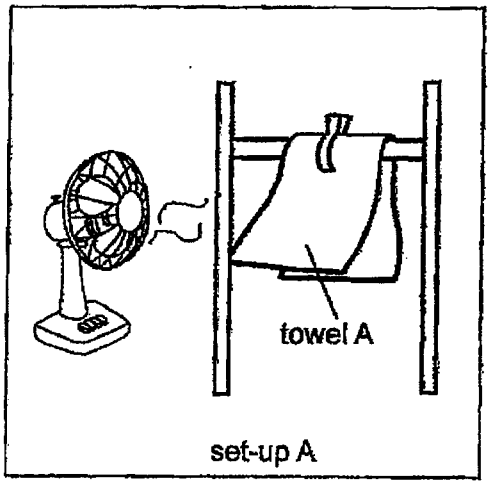
(2) Process Y involves heat gain.

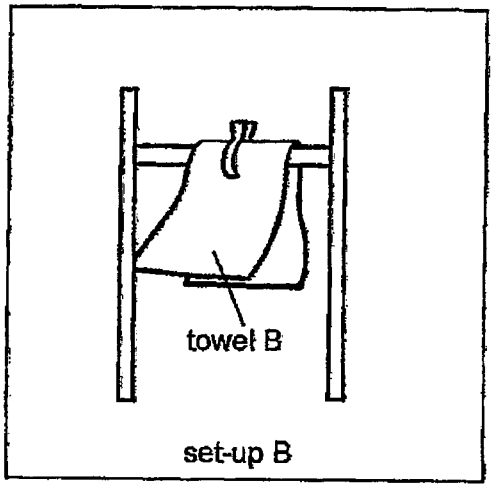
(3) The clouds are made of water vapour.

(4) There is no change in state of water in process X and Y.

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9 Aishah carried out an experiment in a classroom. She wanted to find out if the presence of wind affects the rate of evaporation. She poured 100 ml of water on both towels, A and B.





Aishah recorded her results as shown below every ten minutes.

Towel	Mass of towel (g)		
	10 minutes	20 minutes	30 minutes
A	390	375	350
B	395	?	370

What is the mass of towel B most likely to be at 20 minutes?

(1) 350 g

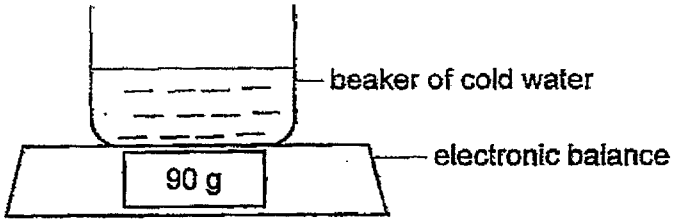
(2) 372 g

(3) 384 g

(4) 398 g

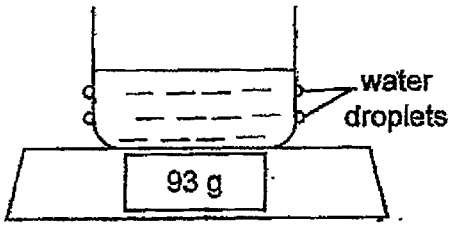
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10 The diagram below shows a beaker of cold water on an electronic balance.

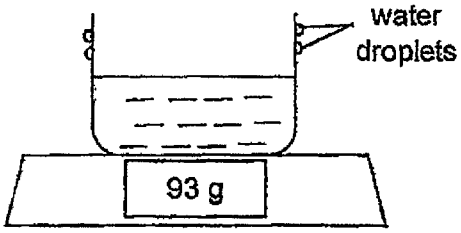


Which of the following diagram shows the correct setup after ten minutes?

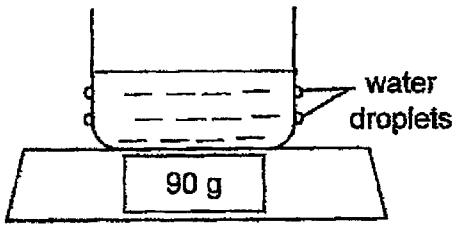
(1)



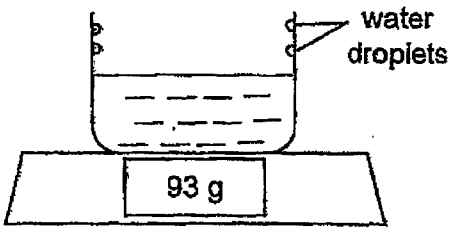
(2)



(3)

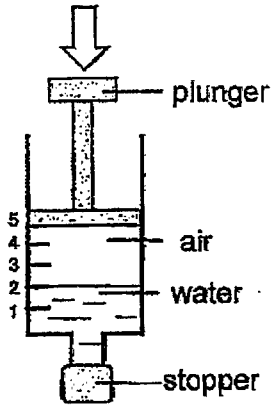


(4)



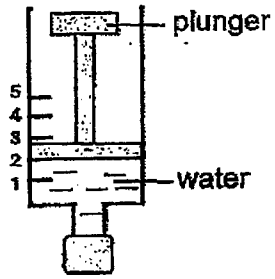
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11 Gopal filled a syringe with 2 cm^3 of water and 3 cm^3 of air. He used a stopper to block the opening of the syringe as shown below.

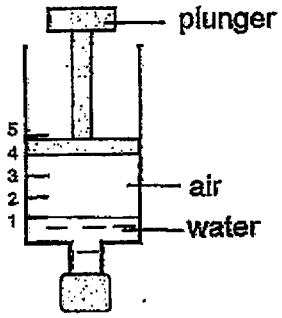


What would Gopal observe after he pushed the plunger downwards as far as he could without any water or air escaping?

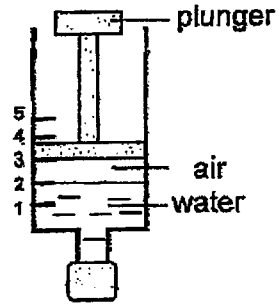
(1)



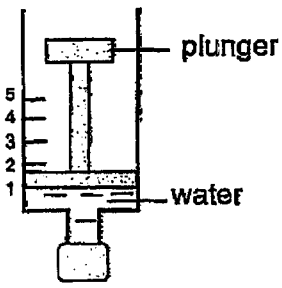
(2)



(3)

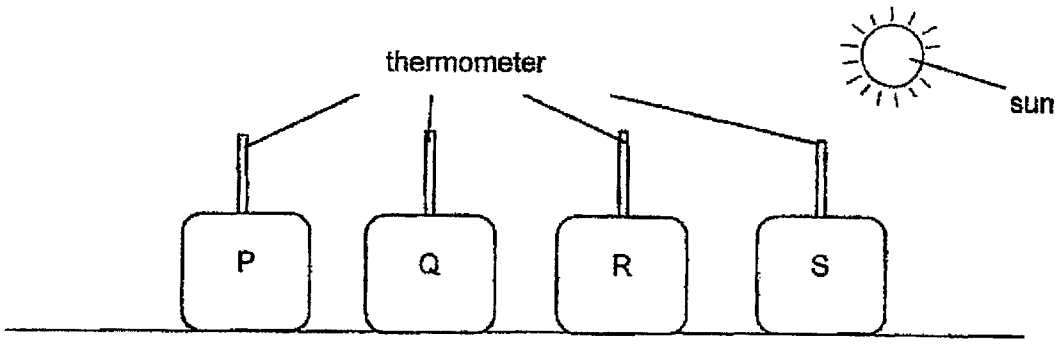


(4)

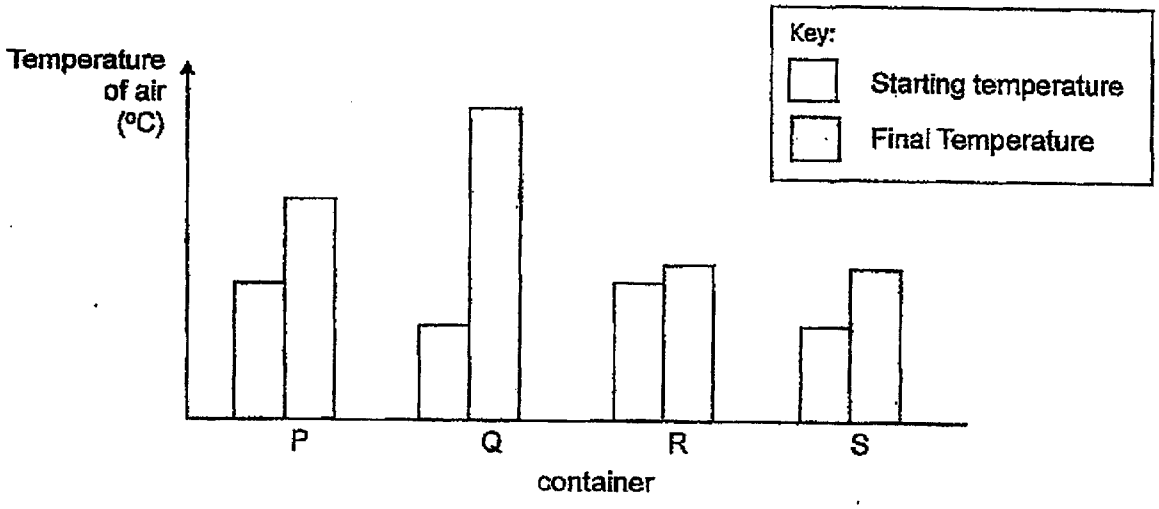


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12 Royston conducted an experiment using four containers, P, Q, R and S, that were made of different materials and taken from different places in his house. He measured the starting temperature of air in each container and placed them under the sun for 30 minutes as shown below.



After 30 minutes, he recorded the final temperature of air in each can as shown in the bar graph below.



Which container is most suitable to store ice cream in the hot weather?

(1) P

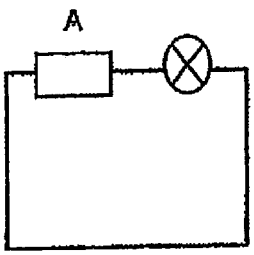
(2) Q

(3) R

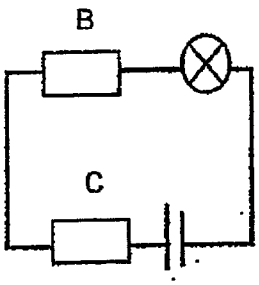
(4) S

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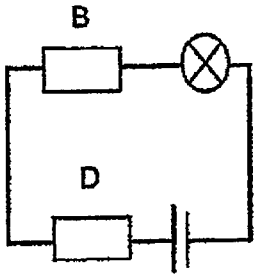
13 All the bulbs and batteries in the three circuits below are identical and are in working conditions. A, B, C and D are materials which are either electrical conductor or insulator.



Bulb does not light up



Bulb lights up



Bulb does not light up

Which of the following materials is/are definitely an electrical insulator ?

(1) C only

(2) D only

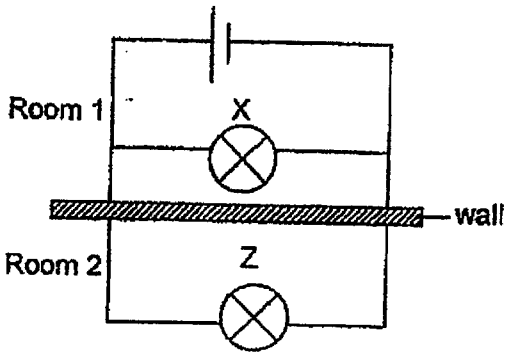
(3) A and D only

(4) B and D only

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14 Ziming set up two identical bulbs in his toy house. Bulb X is in Room 1 and Bulb Z is in Room 2. The brightness of each room is the same.

The two rooms are separated by a wall as shown below.



He wanted Room 2 to be brighter than Room 1.

What should he do?

(1) Add in a bulb in series to bulb Z.

(2) Add in a bulb in parallel to bulb Z.

(3) Add in more batteries in the circuit.

(4) Add in an electrical conductor in series to bulb Z.

(Go to booklet B)

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Rosyth School
Weighted Assessment
SCIENCE
Primary 5

Name: _____ Total Marks: ____/50

Class: Pr 5- _____ Register No. _____ Total time for Booklets A and B: 1 h

Date: _____ Parent's Signature: _____

Booklet B

Instructions to Pupils:

For questions 15 to 20, write your answers in the spaces given in this booklet.

	Maximum	Marks Obtained
Booklet A	28 marks	
Booklet B	22 marks	
Total	50 marks	

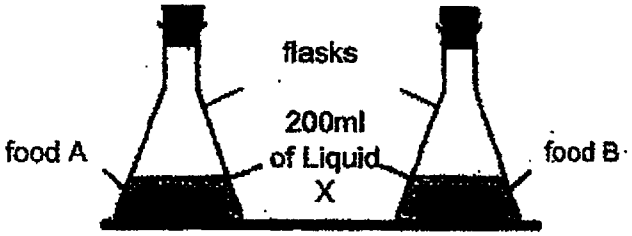
* This booklet consists of 9 printed pages (including cover page).

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For questions 15 to 20, write your answers in the space provided. [22 Marks]

15 Liquid X is similar to the digestive juice found in the stomach. Amin prepared the two set-ups as shown below using similar-sized foods, A and B. He was investigating the rate of digestion for foods, A and B. He recorded the results of his experiment after an hour.



He concluded that food A digested faster than food B in liquid X.

(a) What would be the evidence to support the above conclusion? [2]

Amin wanted to find out what is the best temperature for digesting food A in liquid X.

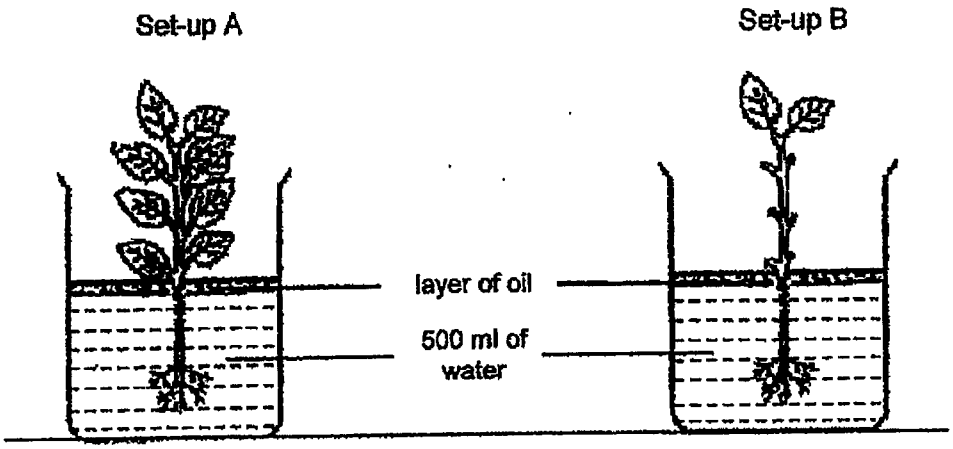
He prepared three experimental set-ups with liquid X at 20°C, 30°C and 40°C respectively. Using the results, he concluded that the best temperature for food A to be digested is at 30°C.

(b) His teacher asked him to prepare another set-up with liquid X at 37°C. Explain why that set-up is needed. [1]

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16 Sam carried out an experiment to find out how the number of leaves on a plant affects the rate of absorption of water by the plant. He placed two similar plants in identical beakers, each containing the same amount of water as shown in the diagram below.

He then placed the two set-ups next to a window for five days.



He recorded part of his experimental results in the table below.

	Volume of water left in the beaker (ml)	
Day	Set-up A	Set-up B
0	500	500
2	450	490
4	400	470

(a) State the changed variable in this experiment [1]

_____

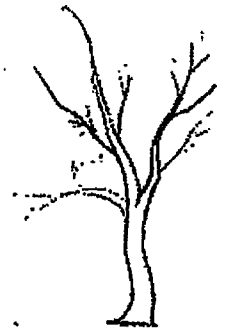
(b) What can Sam do to make the results more reliable? [1]

_____

Question 16 continues on page 4

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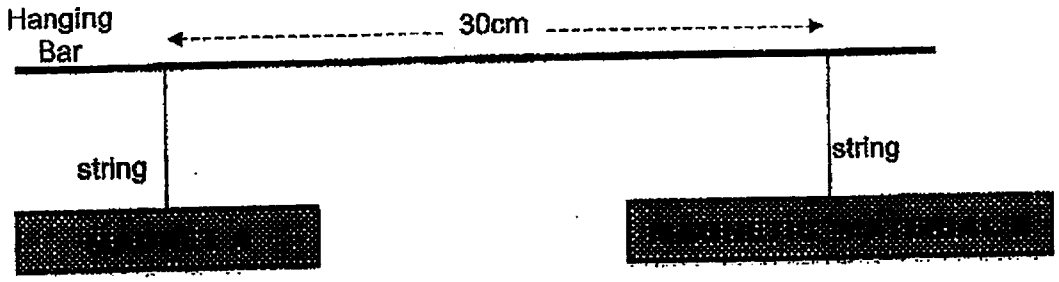
(c) The picture below shows a tree that has shed its leaves during the dry season.



Using the results, explain how shedding its leaves would help the plant. [2]

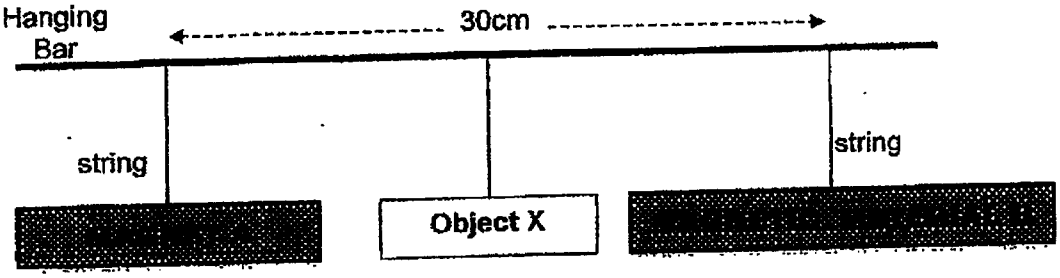
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17 David hung a magnet A, 30cm away from a magnetic material B.

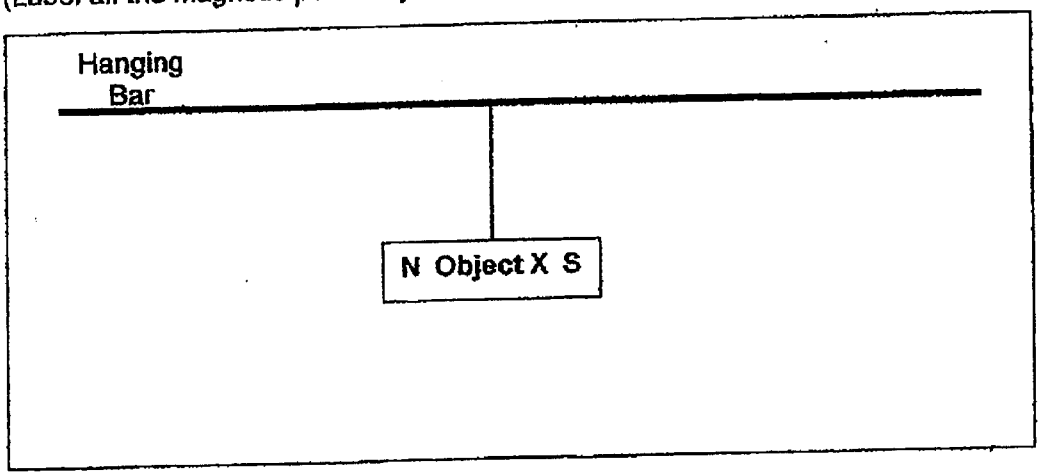


(a) He observed that magnet A and the magnetic material B were not attracted to each other. Explain why. [1]

(b) Then he hung object X in between magnet A and magnetic material B as shown below.

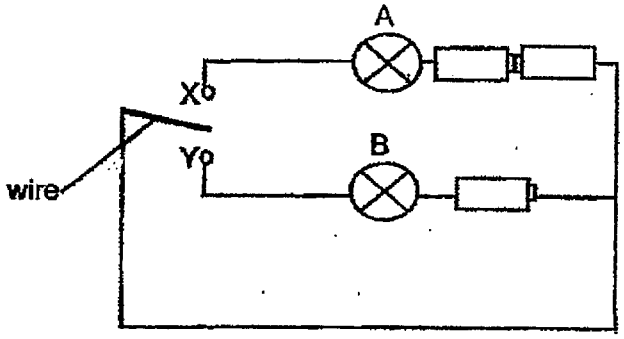


If object X is a magnet hung in between A and B, what would possibly happen to A and B? Draw in the box given below to show one possible result. (Label all the magnetic poles in your drawing.) [2]



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18 Ben wants to set up a circuit to light up his toy building as shown below using identical bulbs and batteries.



Study the circuit above and answer the following questions. [3]
State if statements 1 and 2 are true or false and give the reasons.

Statement 1 : When the wire is at X, bulb A will light up.

Tick : True ☐ False ☐

Reason for your choice: _____

_____

Statement 2 : When the wire is at Y, bulb B will light up.

Tick : True ☐ False ☐

Reason for your choice: _____

_____

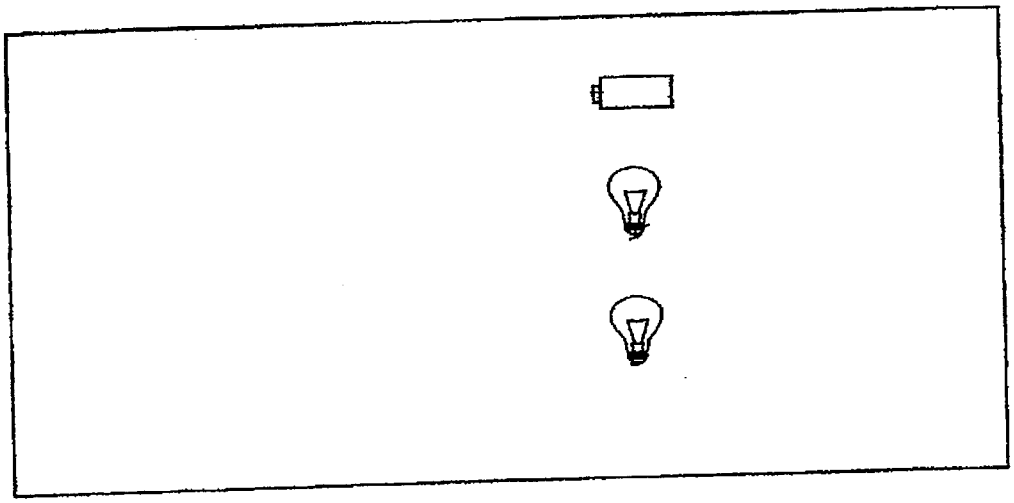
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19 Mary set up a circuit using two bulbs and a battery.

She wants the following condition to be met.

There are two pathways for the electrical current to flow.

(a) Complete the circuit below. [2]



(b) State one disadvantage of the above circuit. [1]

_____

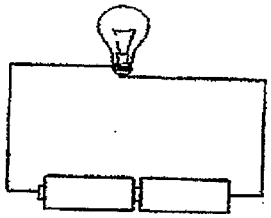
(c) Suggest how the two bulbs can be controlled independently. [1]

_____

_____

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20 Ruth sets up an electric circuit using a bulb and two batteries as shown below.

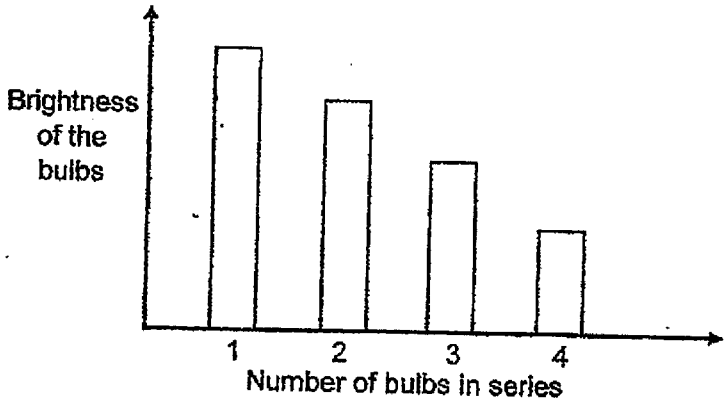


She wants to find out how the number of bulbs arranged in series will affect the brightness of each bulb.

(a) To ensure a fair test, state one variable she must keep constant. [1]

_____

(b) The graph below shows the relationship between the number of bulbs arranged in series in the circuit and the brightness of the bulbs.



From the graph above, state the relationship between the number of bulbs arranged in series and the brightness of the bulbs. [1]

_____

_____

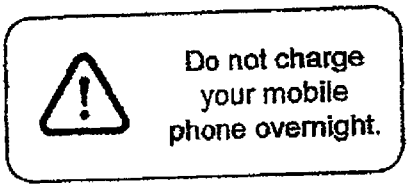
Question 20 continues on page 9

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(c) Ruth carried out the experiment in a dark room.

Explain how carrying out the experiment in a dark room helped to make the experiment accurate. [1]

(d) Ruth saw a notice as shown below.



Explain the reason for the above notice. [2]

End of Paper

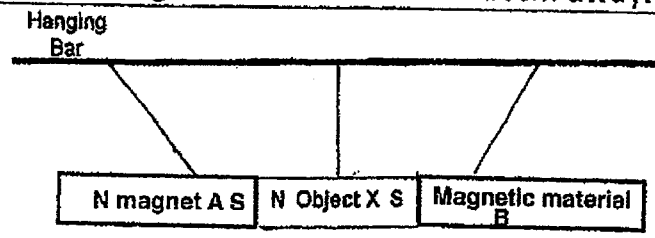
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YEAR : 2025
LEVEL : PRIMARY 5
SCHOOL : ROSYTH SCHOOL
SUBJECT : SCIENCE
TERM : WEIGHTED ASSESSMENT 2

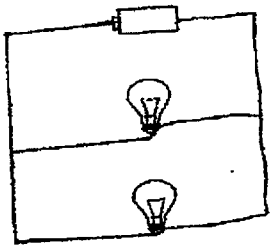
(BOOKLET A)

Q1	4	Q2	2	Q3	1	Q4	2	Q5	3
Q6	4	Q7	2	Q8	2	Q9	3	Q10	1
Q11	3	Q12	3	Q13	2	Q14	2		

BOOKLET B

Q15	(a)	Food A be smaller than Food B at the end of the experiment.
	(b)	37°C is the body temperature so Amin can use it 30°C is the best for food A to be digested.
Q16	(a)	The numbers of leaves
	(b)	She should test experiment more than one time and compare the overall results.
	(c)	With less leaves, less water is absorbed by the plant so the plant can survive with less water during dry season.
Q17	(a)	As the magnetism of magnet A is not strong enough to attract magnetic material B from 30cm away.
	(b)	
Q18	Statement 1:	False ☑
	Reason for your choice:	Both positive points are facing each other and it will not allow electricity to pass through to light up bulb A

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	Statement 2:	True ☑
	Reason for your choice:	As it will be a close circuit and will allow electricity to pass through to light up Bulb A.B
Q19	(a)	
	(b)	It uses more electricity
	(c)	By adding a switch beside the light bulb for them to be controlled independently.
Q20	(a)	Number of batteries
	(b)	As the number of bulbs increase, the brightness of the bulbs decrease.
	(c)	So that the difference in brightness of the bulbs measures accurately.
	(d)	The phone might be overheated and catch on fire

END

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