METHODIST GIRLS' SCHOOL

Founded in 1887

PRIMARY 5
SCIENCE
WEIGHTED ASSESSMENT 2 2024

Total Time for Paper: 45 min

INSTRUCTIONS TO CANDIDATES
Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.

Name: _____ ( )

Class: Primary 5._____

Date : _____

Parent's signature: _____

Section A	16
Section B	14
Total	30

This paper consists of 11 printed pages including this page.

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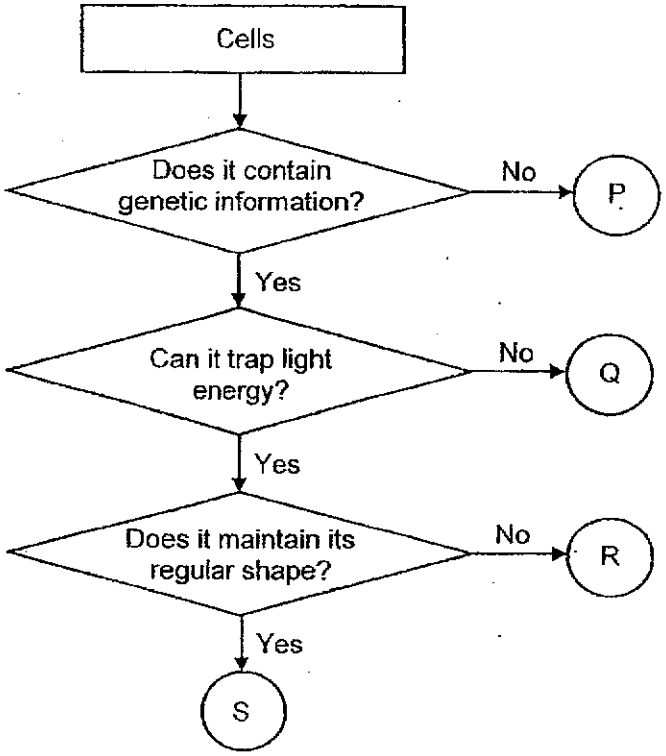
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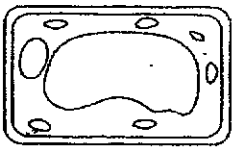
Section A

For each question from 1 to 8, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write in the bracket provided. [16 marks]

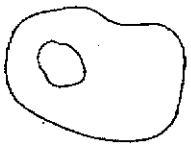
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1 Study the flowchart below.





Cell A



Cell B

Based on the information in the flowchart, which letter, P, Q, R or S represents cell A and cell B?

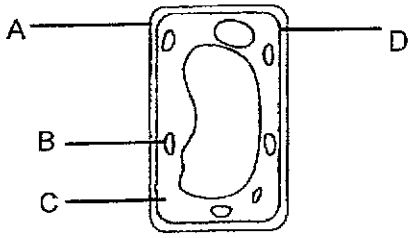
	Cell A	Cell B
(1)	R	Q
(2)	S	Q
(3)	R	P
(4)	S	P

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2 The diagram below shows a plant cell.

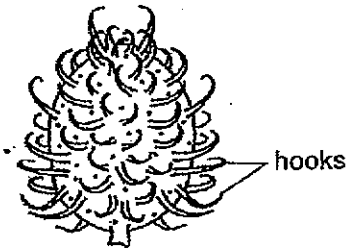


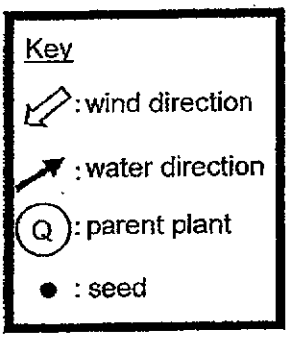
Which parts are also found in an animal cell?

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

( )

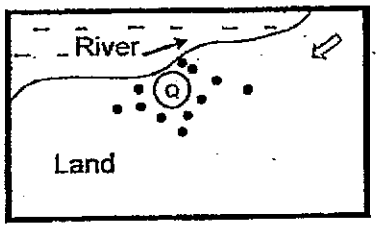
3 The diagram below shows fruit Q and the key to its dispersal pattern.



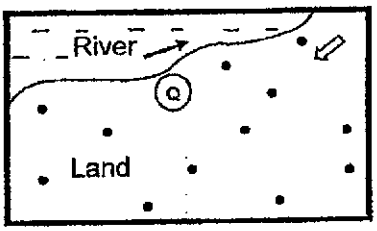


Which one of the following shows the correct distribution of seeds by parent plant Q.

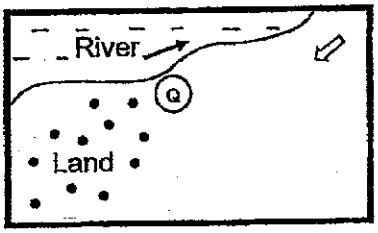
(1)



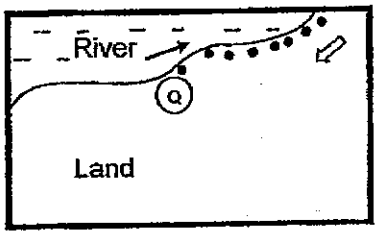
(2)



(3)



(4)

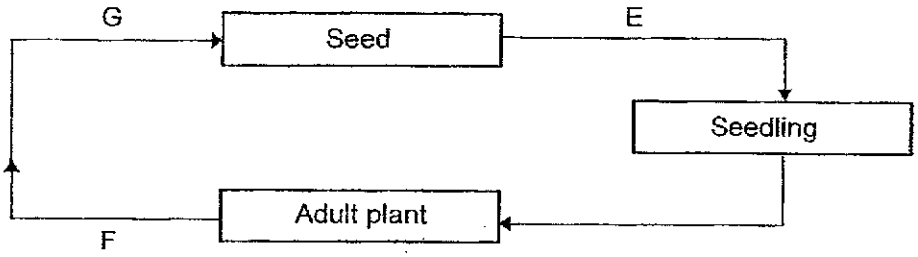


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4 Study the diagram below.

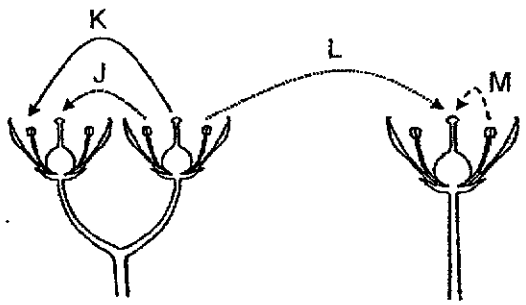


Which of the following correctly shows the sequence of processes in the sexual reproduction of flowering plants?

	E	F	G
(1)	Germination	Pollination	Fertilisation
(2)	Seed Dispersal	Fertilisation	Pollination
(3)	Seed Dispersal	Germination	Fertilisation
(4)	Germination	Seed Dispersal	Fertilisation

( )

5 The diagram below shows flowers of two plants of the same type.



Which of the arrow(s) show(s) pollination taking place?

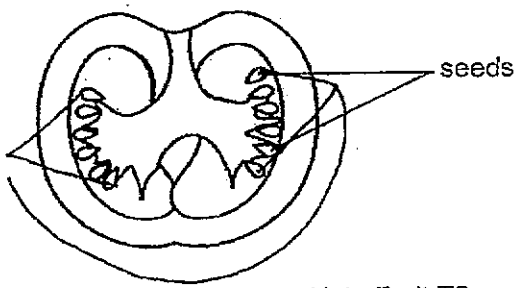
(1) K only
(2) L only
(3) J and L only
(4) J, L and M only

( )

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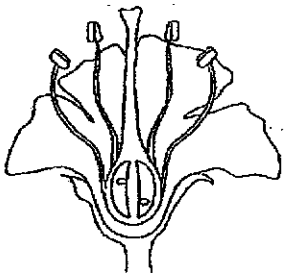
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6 The diagram below shows the cross section of Fruit T.

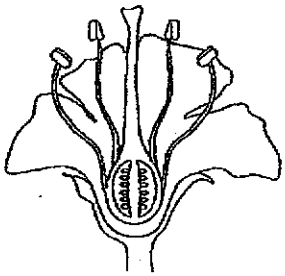


Which of the following flowers most likely developed into Fruit T?

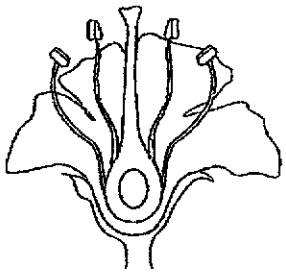
(1)



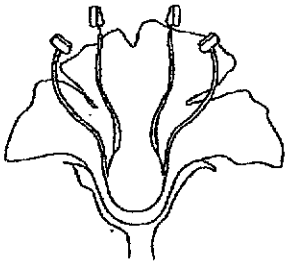
(2)



(3)



(4)

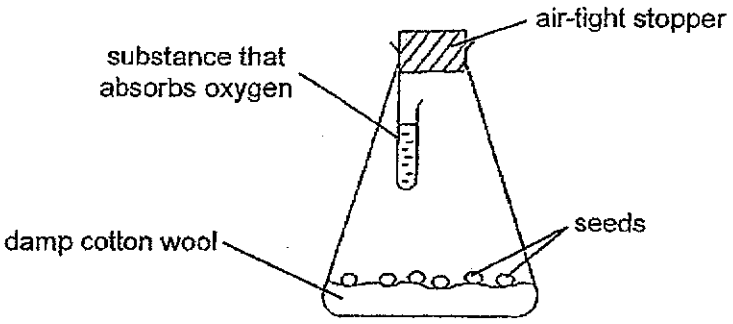


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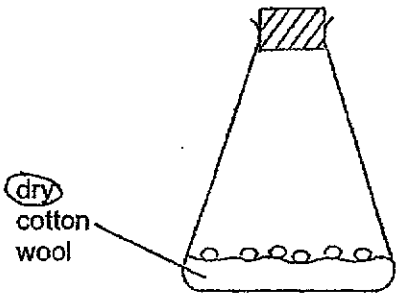
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7 Bella wants to conduct an experiment to find out whether oxygen is needed for the germination of seeds. One of her set-ups is shown below.

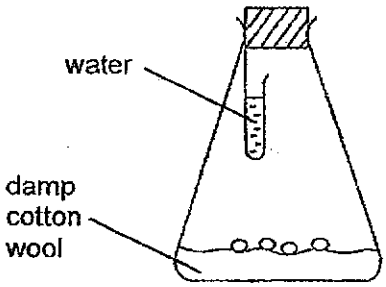


Which one of the following set-ups should Bella also use for a fair experiment?

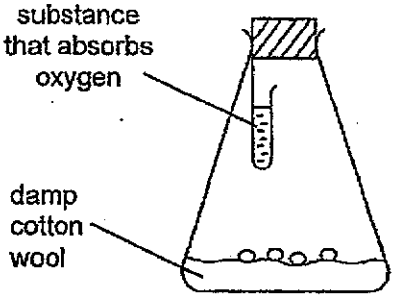
(1)



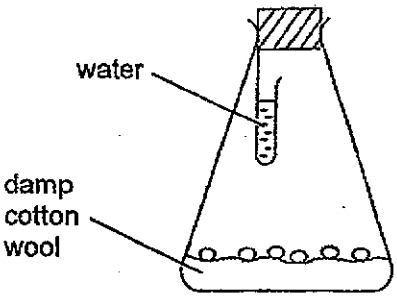
(2)



(3)



(4)



( )

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8 Study the information in the table.

Types of cells	Parts where the cells are found	
	Parts of a flowering plant	Parts of a human
male reproductive cells	W	Y
female reproductive cells	X	Z

Which of the following correctly identify W, X, Y and Z?

	W	X	Y	Z
(1)	ovaries	stigma	ovaries	testes
(2)	anther	ovules	ovaries	testes
(3)	anther	ovules	testes	ovaries
(4)	ovules	anther	testes	ovaries

( )

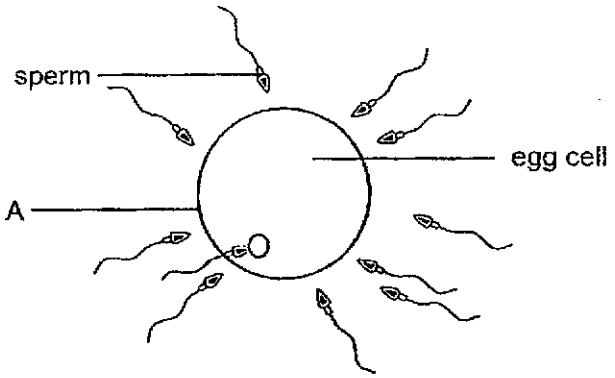
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Section B

For questions 9 to 11, write your answers in the space provided. [14 marks]

9 The diagram below shows process X taking place in the reproduction of humans.



(a) Name part A and state its function. [2]

(b) Identify and describe process X. [2]

4

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10 Process J takes place in the life cycle of fruit K as shown in diagram 1 below.

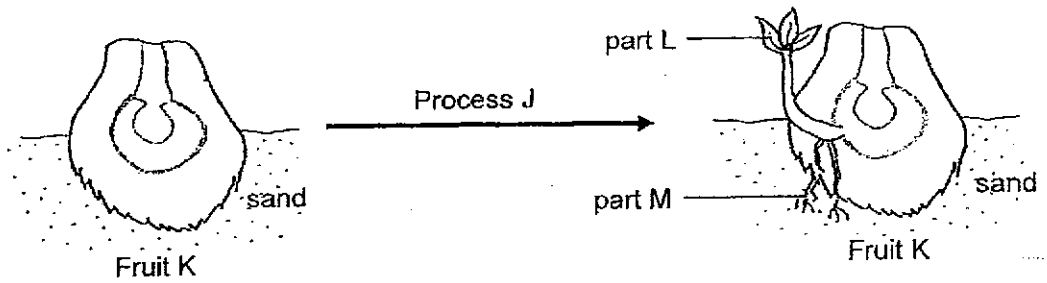


Diagram 1

(a) Identify process J and state all the conditions necessary for process J to take place. [2]

Diagram 2 below shows some parts of fruit K.

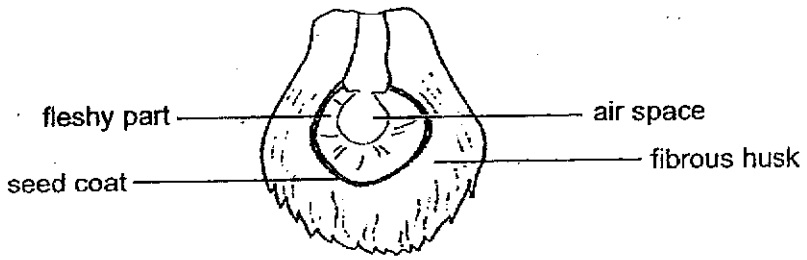


Diagram 2

(b) Explain how the fleshy part of fruit K in the diagram plays an important role in process J. [1]

(c) Explain why it is advantageous for fruit K to be dispersed away from its parent plant. [2]

5

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11 The diagram shows fruits G and H.



G H

(a) How are the seeds of G and H dispersed? [1]

G _____

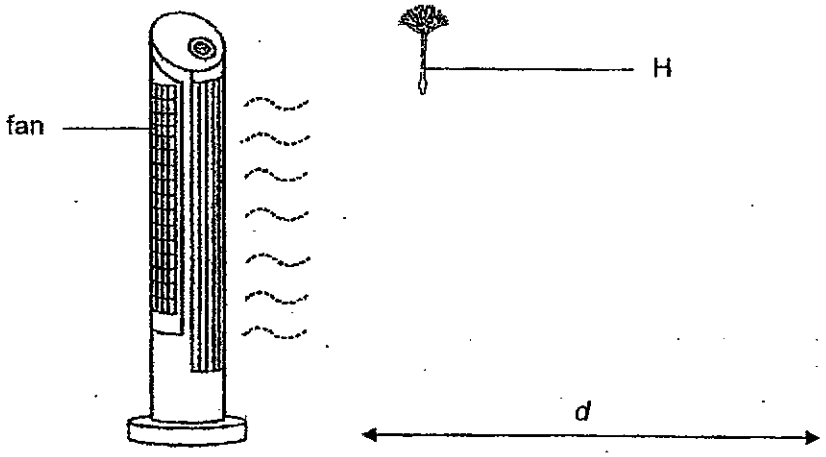
H _____

(b) State one advantage of the method used by G to disperse its seeds. [1]

_____

_____

Arya conducted an experiment to find out if the amount of wind affects the distance *d* moved by H as shown when it was released from a certain height above the ground.



(c) State a possible hypothesis for this experiment. [1]

_____

_____

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(d) Arya repeated the experiment five times with all factors kept the same except for one. Suggest one possible way of varying this factor. [1]

_____

_____

(e) Suggest one variable that Arya could measure in her experiment other than distance *d*. [1]

_____

_____

5

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ANSWER KEY

YEAR : 2024
LEVEL : PRIMARY 5
SCHOOL : MGS
SUBJECT : SCIENCE
TERM : WA 2

SECTION A

Q1	2	Q2	4	Q3	2	Q4	1	Q5	4
Q6	2	Q7	4	Q8	3				

SECTION B

Q9	a) Cell membrane, controls movement of subtances in and out of cell. b) Fertilisation , fertilisation means the female reproductive cell fusing with the male reproductive cell.
Q10	a) Germination. Water , Oxygen and warmth. b) Provides food for the developing young plant. c) To prevent overcrowding and competition for space, sunlight , water and mineral salts.
Q11	a) G : Splitting H : Wind dispersal b) Does not need to rely on external agents, factors to help disperse its seed. c) Amt of wind does not affect distance moved by H. d) The seed of the fan could be varied. e) She could measure the time taken for the seed to reach the ground.

END

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