



Nan Hua Primary School
 Primary 5 Science
 Term 1 Weighted Assessment 2025

Marks	
Section A:	/ 10
Section B:	/ 10
Total:	/ 20

Name: _____ ()

Class: Primary 5S _____

Date: _____

Duration: 30 minutes

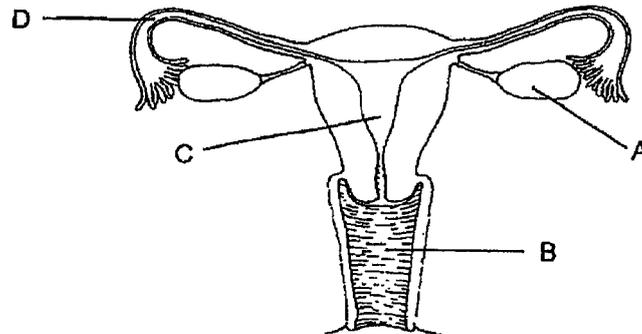
 Parent's Signature

Answer all questions

Section A: (5 x 2 marks = 10 marks)

For each question from 1 to 5, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4) and write your answer in the brackets provided.

1 The diagram below shows the female human reproductive system.



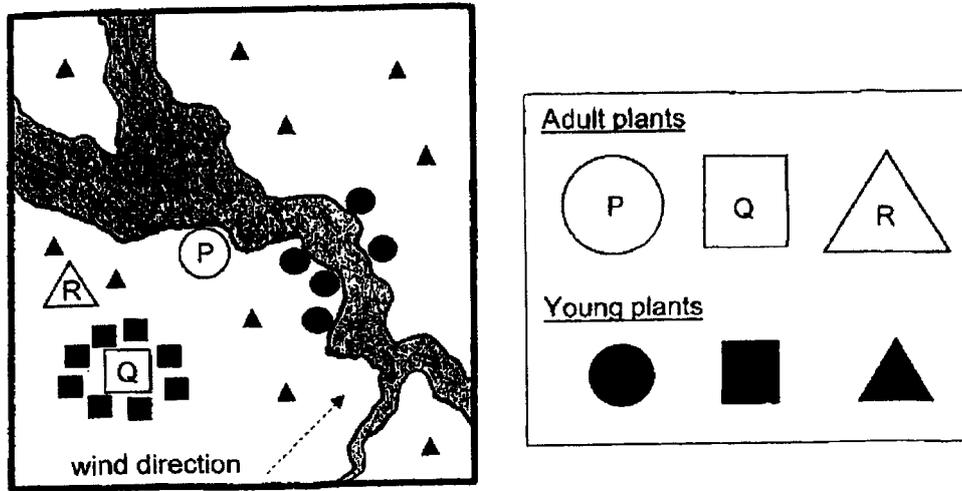
Which row matches the parts, A, B, C and D to the functions?

	Produces female reproductive cells	Where fertilised egg develops into a baby
(1)	A	B
(2)	A	C
(3)	B	C
(4)	C	D

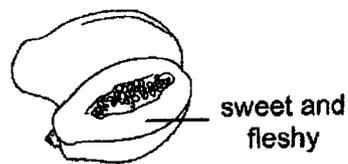
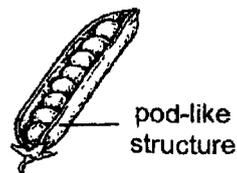
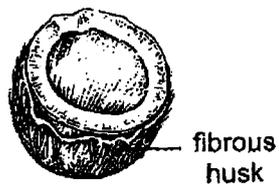
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This booklet consists of 10 printed pages.

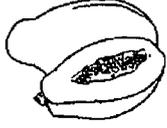
2 The diagram below shows the distribution of seeds by plants, P, Q and R.



Four seeds are observed to have the following characteristics:



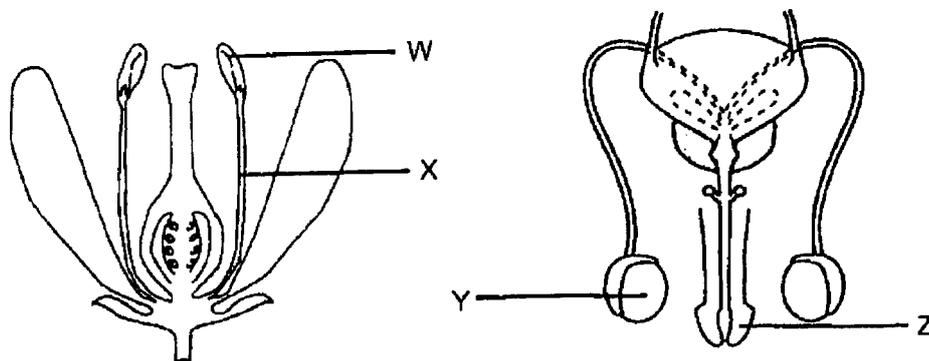
Based on the information, which of the following fruits are most likely to be from plants, P, Q and R?

	P	Q	R
(1)			
(2)			
(3)			
(4)			

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- 3 The diagram below shows a flower and the male human reproductive system.

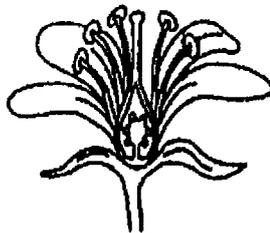


Which parts have the same function?

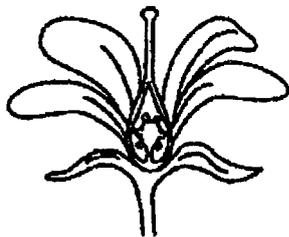
- (1) X and Y
- (2) X and Z
- (3) W and Y
- (4) W and Z

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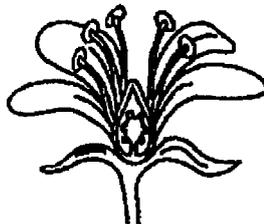
- 4 The diagram below shows a flower.



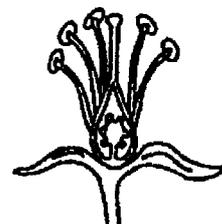
A, B and C are flowers from the same plant. However, some of their parts have been removed before pollination could occur as shown below.



Flower A



Flower B



Flower C

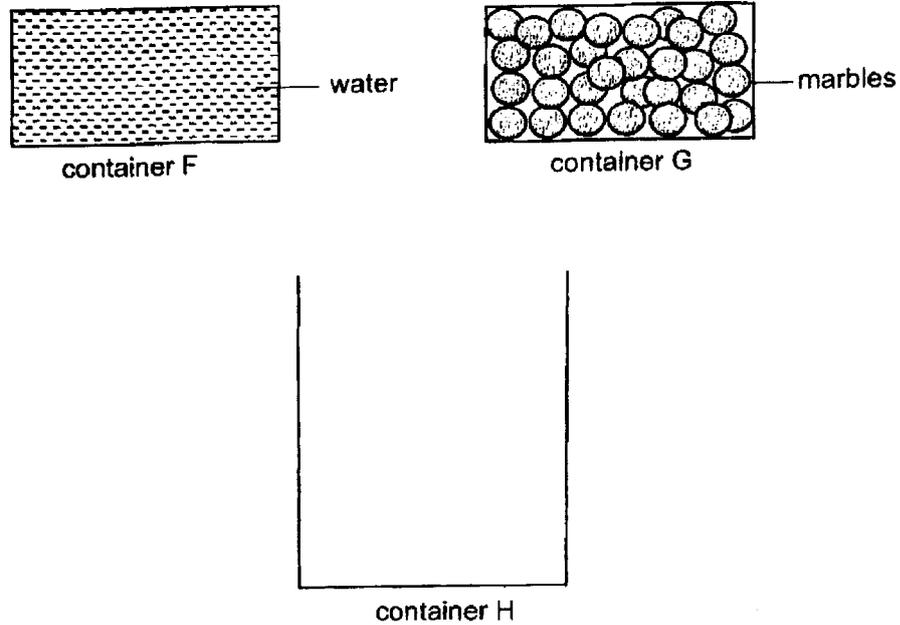
Which flower(s) is/are **not** able to undergo fertilisation?

- (1) flower A only
- (2) flower B only
- (3) flowers A and C
- (4) flowers B and C

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- 5 Jacinda filled up a 100 cm^3 container F with water. She filled up another 100 cm^3 container G with marbles. Next, she transferred both the water and the marbles into a 250 cm^3 container H.



The volume occupied by the water and the marbles in container H is likely to be

- _____.
- (1) 100 cm^3
 - (2) 200 cm^3
 - (3) more than 200 cm^3
 - (4) between 100 cm^3 and 200 cm^3

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Section B: Structured questions (10 marks)

For questions 6 to 8, write your answers in the space provided. The number of marks available is shown in brackets [] at the end of each question or part question.

- 6 The diagram below shows a process in human reproduction.



- (a) Name this process. [1]

- (b) Identify cells A and B. [1]

(i) Cell A: _____

(ii) Cell B: _____

The table below shows the physical traits of a human. Put a tick (✓) in the boxes below to show the trait(s) a child can inherit from his/her parents. [1]

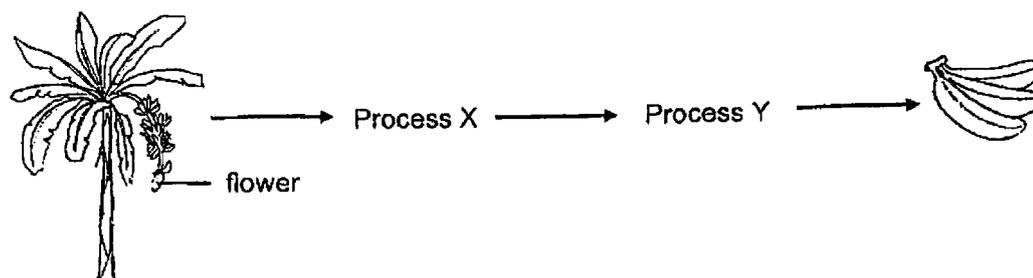
(c)

hair length	
hair colour	
eye colour	

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Score	3
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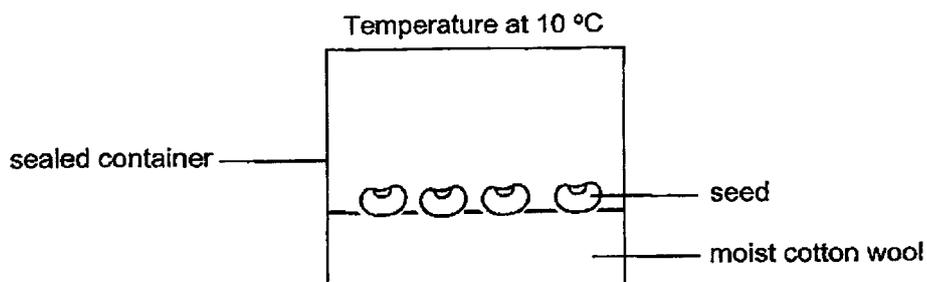
- 7 The diagram shows how a fruit is formed from its flower of the plant.



- (a) Describe process X.

[1]

Lucca wanted to find out how temperature affects the number of seeds that would germinate. He planted 50 seeds in a container filled with moist cotton wool and placed the set-up in a room with temperature set at 10 °C.



He repeated his experiment by placing four similar set-ups in different temperatures.

The table below shows his observations at the end of the experiment.

Temperature (°C)	10	20	30	40	50
Number of seeds germinated	3	25	37	43	10

- (b) Based on the experiment results, what is the relationship between the number of seeds germinated and the temperature of the surrounding the set-up is placed in? [2]

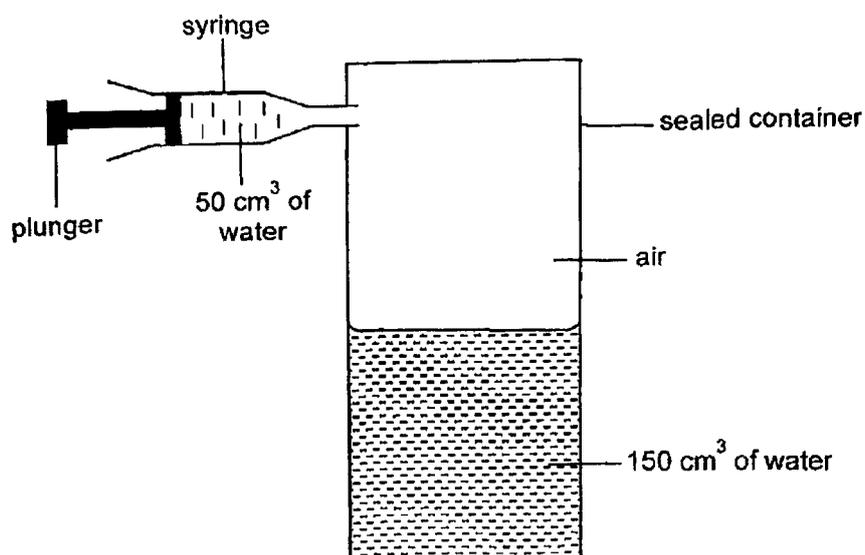
- (c) State how using the same container helped to make his experiment a fair one. [1]

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Score	4
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- 8 (a) State what matter is. [1]

Mandy carried out an experiment using the set-up below. The sealed container had a capacity of 300 cm^3 . It contained 150 cm^3 of water at the start of the experiment.



- (b) Mandy pushed the water in the syringe fully into the sealed container. What was the final volume of the air in the sealed container? [1]

- (c) Using the properties of matter, explain your answer in part (b). [1]

End of paper

Score	3
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STUDENT ANSWER KEY

Section A

Qn	Answer
1	2
2	1
3	3
4	2
5	4

Section B

6a	Fertilisation						
6b	Cell A: <u>Sperm</u> Cell B: <u>Egg</u>						
6c	<table border="1"><tbody><tr><td>hair length</td><td></td></tr><tr><td>hair colour</td><td>✓</td></tr><tr><td>eye colour</td><td>✓</td></tr></tbody></table>	hair length		hair colour	✓	eye colour	✓
hair length							
hair colour	✓						
eye colour	✓						

7a	<p>Self-pollination: Process X is <u>the transfer of pollen grains</u> from <u>the anther</u> to <u>the stigma</u> of a flower.</p> <p>OR</p> <p>Cross-pollination: Process X is <u>the transfer of pollen grains</u> from <u>the anther</u> of a flower to <u>the stigma</u> (of another flower of the same type).</p>
7b	<p>1st trend: As the temperature of the surrounding the set-up is placed in <u>increases</u> from <u>10°C to 40°C/until 40°C</u>, the number of seeds germinated also <u>increases</u>.</p> <p>2nd trend: As the temperature of the surrounding the set-up is placed in <u>increases</u> from <u>40°C to 50°C/after/beyond 40°C</u>, the number of seeds germinated <u>decreases</u>.</p>
7c	This ensures that <u>the amount of air/oxygen/water vapour</u> in the sealed container is the <u>same/constant</u> .
8a	Matter is anything that <u>occupies space</u> and <u>has mass</u> .
8b	$150 \text{ cm}^3 + 50 \text{ cm}^3 = 200 \text{ cm}^3$ $300 \text{ cm}^3 - 200 \text{ cm}^3 = \underline{100 \text{ cm}^3}$
8c	Air has no definite volume and it takes up the remaining volume/smaller space of the container.