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: _____

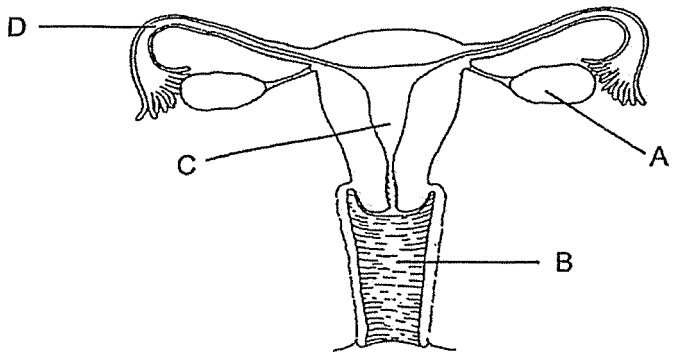
Duration: 30 minutes

_____
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.



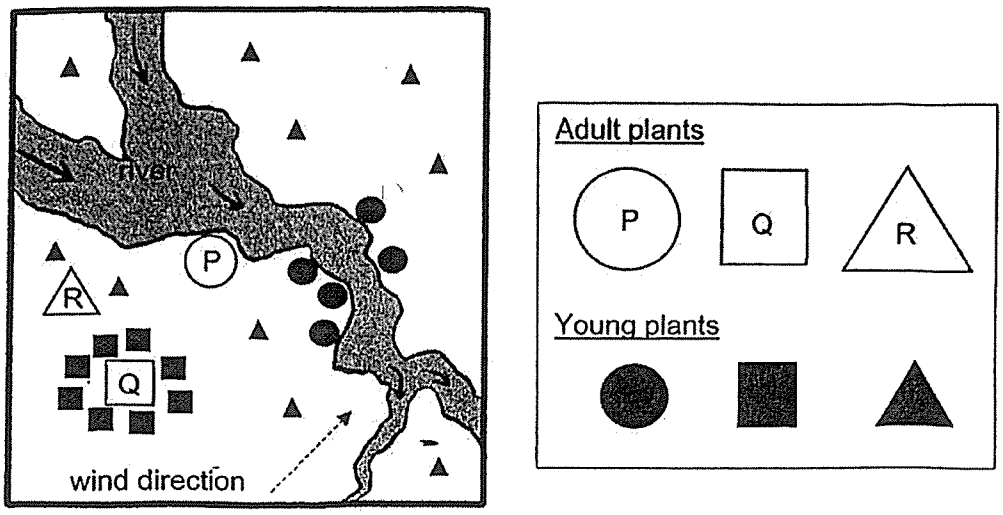
Which row matches the parts, A, B, C and D to the functions?

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

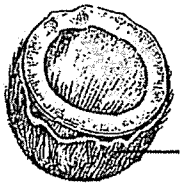
( )

This booklet consists of **10** printed pages.

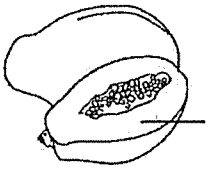
2 The diagram below shows the distribution of seeds by plants, P, Q and R.



Four seeds are observed to have the following characteristics:

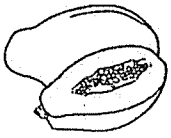

fibrous husk


pod-like structure


sweet and fleshy


hair-like structures

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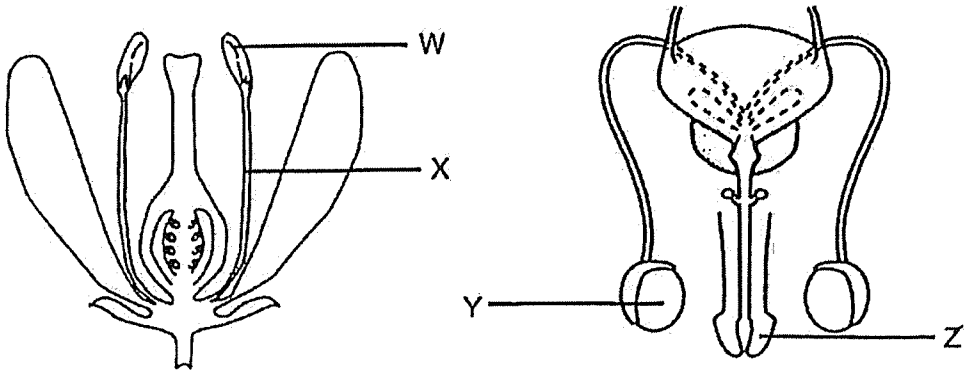
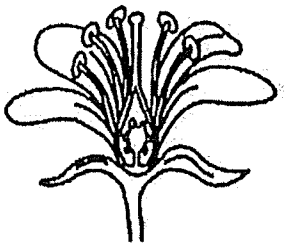
3 The diagram below shows a flower and the male human reproductive system.



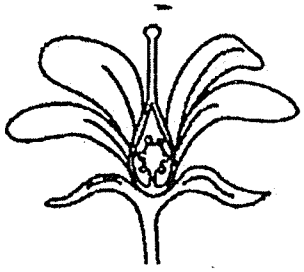
Which parts have the same function?

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

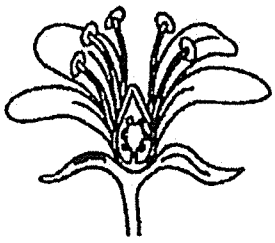
4 The diagram below shows a flower.



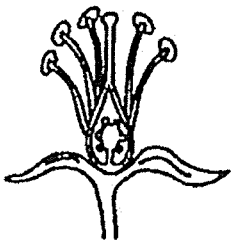
A, B and C are flowers from the same plant. However, some of their parts have been removed before pollination could occur as shown below.



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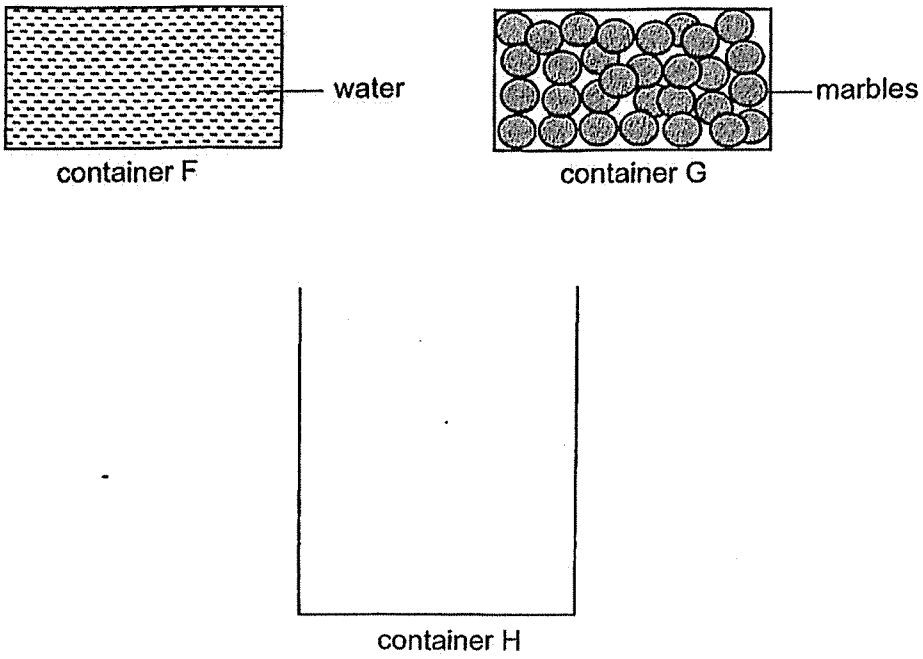
5 Jacinda filled up a 100 cm^3 container F with water. She filled up another 100 cm^3 container G with marbles. Next, she transferred both the water and the marbles into a 250 cm^3 container H.

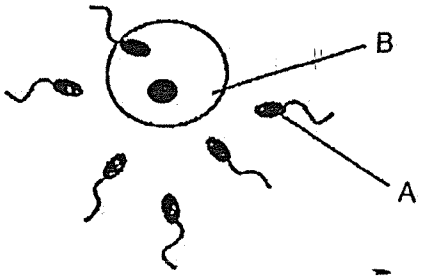


The volume occupied by the water and the marbles in container H is likely to be _____.

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

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]

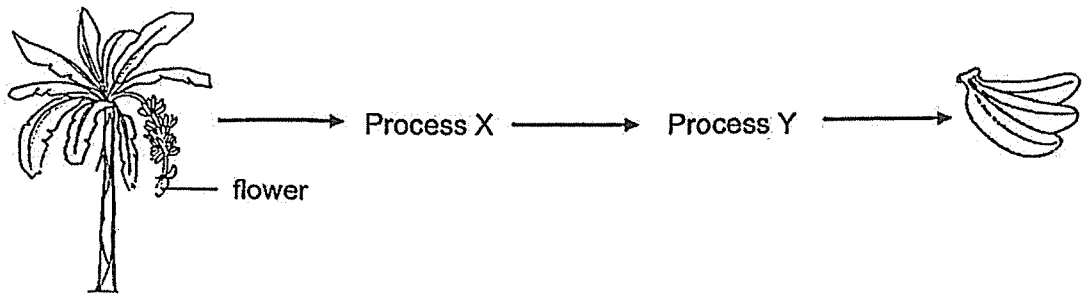
(c)

hair length	
hair colour	
eye colour	

(Go on to the next page)

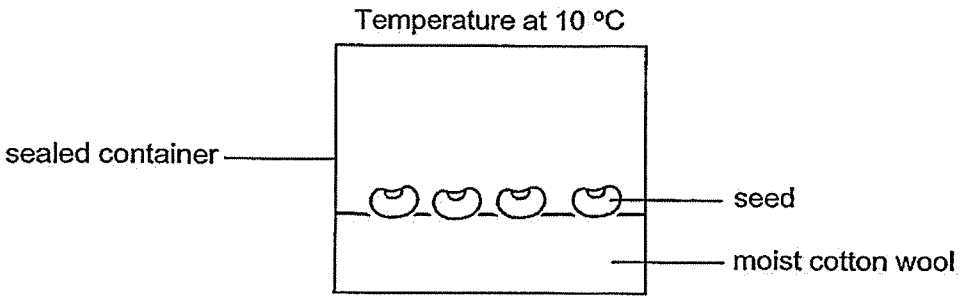
Score	/3

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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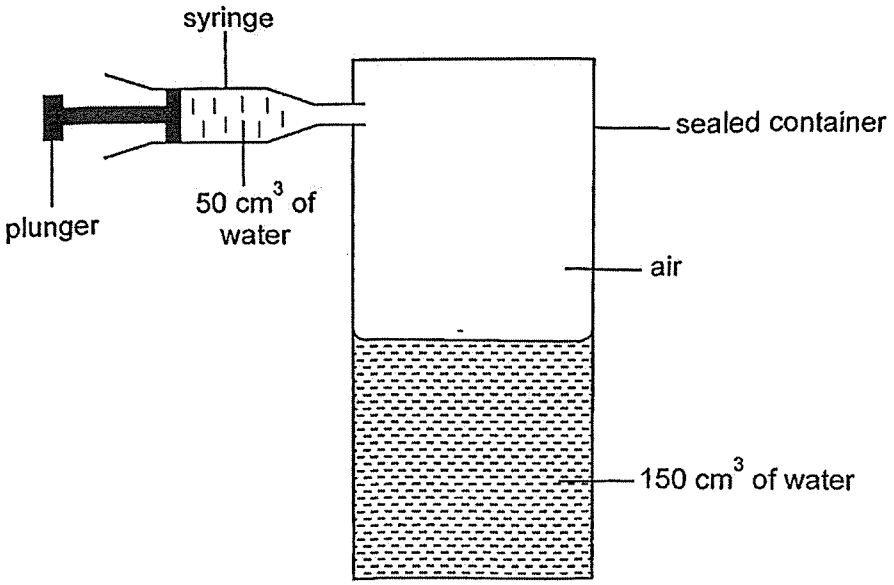
Score 4

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]

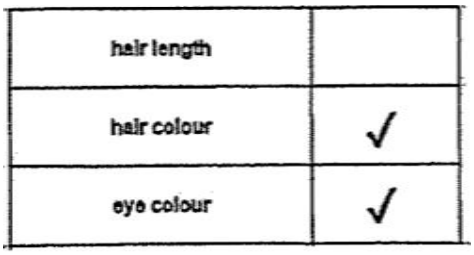
(c) Using the properties of matter, explain your answer in part **(b)**. [1]

End of paper

Score	3

SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2025 WEIGHTED ASSESSMENT 1

Q1	Q2	Q3	Q4	Q5					
2	1	3	2	4					

6a	Fertilisation
6b	Cell A: Sperm Cell B: Egg
6c	
7a	**Self-pollination:** Process X is the transfer of pollen grains from the anther to the stigma of a flower. OR **Cross-pollination:** Process X is the transfer of pollen grains from the anther of a flower to the stigma (of another flower of the same type).
7b	**1st trend:** As the temperature of the surrounding the set-up is placed in increases from 10°C to 40°C/until 40°C, the number of seeds germinated also increases. **2nd trend:** As the temperature of the surrounding the set-up is placed in increases from 40°C to 50°C/after/beyond 40°C, the number of seeds germinated decreases.
7c	This ensures that the amount of air/oxygen/water vapour in the sealed container is the same/constant.

8a	Matter is anything that occupies space and has mass.
8b	$150\ cm^3 + 50\ cm^3 = 200\ cm^3$ $300\ cm^3 - 200\ cm^3 = 100\ cm^3$
8c	Air has no definite volume and it takes up the remaining volume/smaller space of the container.