NANYANG PRIMARY SCHOOL
Weighted Assessment 1
Science
Primary 5

20

Name: _____ ( ) Date: _____

Class 5 ____

Section A (2 marks each)

For each question from 1 to 6, four options are given. One of them is the correct answer. **Indicate your choice in the brackets provided.**

1. Samantha identified 3 similar flowers from Plant A. She labelled them flowers P, Q and R. She removed one different part, X, Y and Z, from each flower without removing the flower from the plant. She then dusted pollen grains onto flowers P, Q and R.

After one month, she made the following observation.

Flower	Part removed	Did the flower become a fruit?
P	X	Yes
Q	Y	No
R	Z	Yes

What could parts X, Y and Z most likely be?

	X	Y	Z
(1)	anther	stigma	ovary
(2)	ovary	petal	stigma
(3)	ovary	stigma	anther
(4)	petal	ovary	anther

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2. Seeds J, K, L and M from the same plant are placed under different conditions as shown in the table below. A tick (✓) represents the presence of the condition for the respective seeds.

	Conditions			
Seed	Air	Water	Light	Temperature (°C)
J	✓	✓	✓	5
K		✓	✓	40
L	✓		✓	5
M	✓	✓		40

Which seed, J, K, L or M, would most likely germinate?

(1) J
(2) K
(3) L
(4) M

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3. 3 types of plants, E, F and G, were planted in an area as shown in diagram A below.

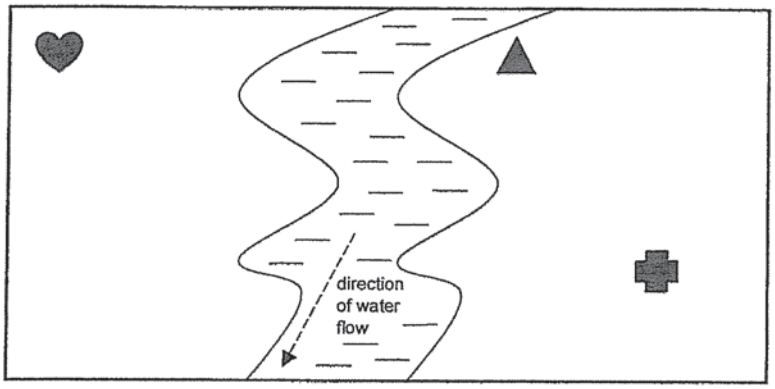

Diagram A

Plant E	✚
Plant F	♥
Plant G	▲

8 years later, more of plants, E, F and G, were found growing on different parts of the same area, as shown in diagram B below.

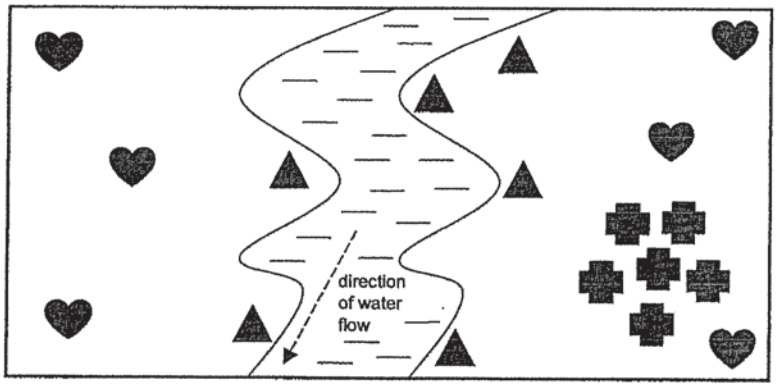

Diagram B

Based only on the above diagrams, what are the methods of dispersal for plants, E, F and G?

	Plant E ✚	Plant F ♥	Plant G ▲
(1)	animal	splitting	water
(2)	splitting	animal	water
(3)	animal	wind	splitting
(4)	water	animal	wind

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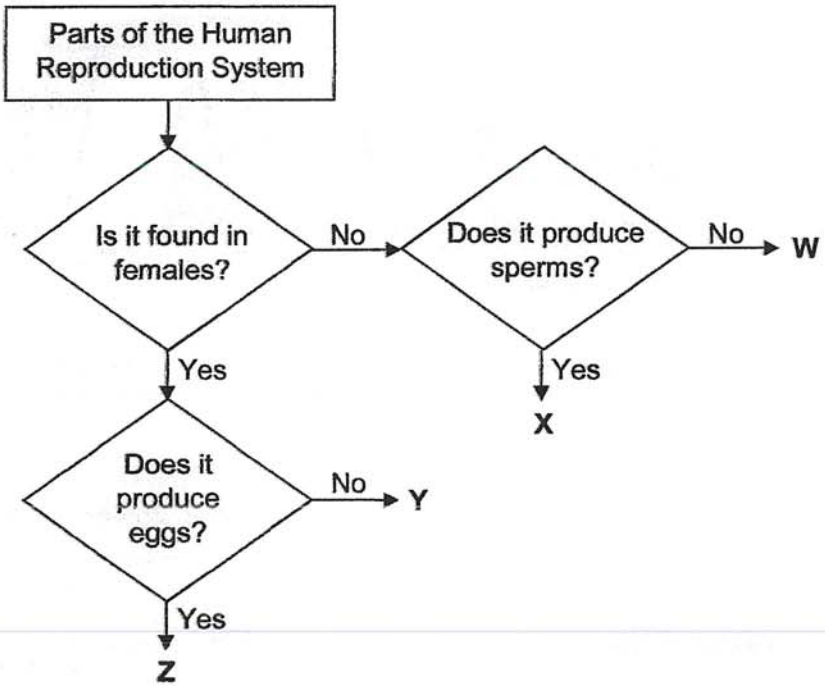
4. Study the flowchart below carefully.



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

	W	X	Y	Z
(1)	testis	penis	ovary	vagina
(2)	testis	penis	womb	ovary
(3)	penis	testis	ovary	womb
(4)	penis	testis	vagina	ovary

( )

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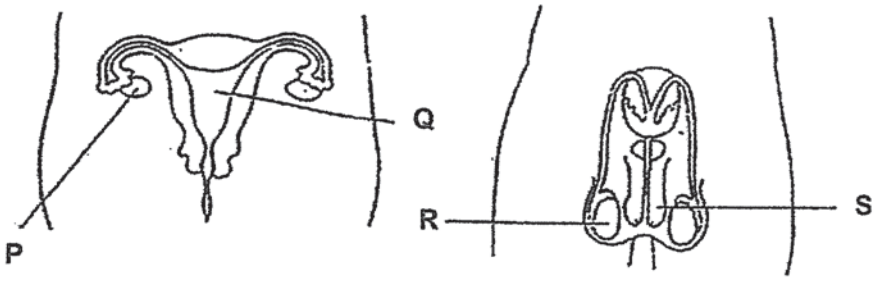
5. The diagram below shows the male and female reproductive systems.



Which parts of the reproductive systems above produce reproductive cells?

(1) P and R only
(2) P and S only
(3) Q and R only
(4) Q and S only

( )

6. Which of the following characteristics can be inherited by a child from his parents?

A Long hair
B Double eyelid
C Attached earlobe

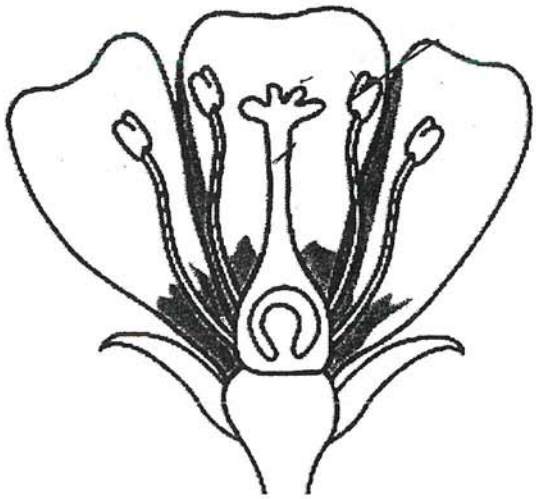
(1) A and B only
(2) A and C only
(3) B and C only
(4) A, B and C

( )

Section B (8 marks)

For questions 7 and 8, fill in your answers in the spaces provided.

7. The diagram below shows the cut section of a flower of Plant X.



Flower of plant X

(a) Draw an arrow to show how pollination can take place within the same flower. [1]

(b) A bee was observed feeding on the nectar of the flower.
Explain how the bee helps in the reproduction process of plant X. [1]

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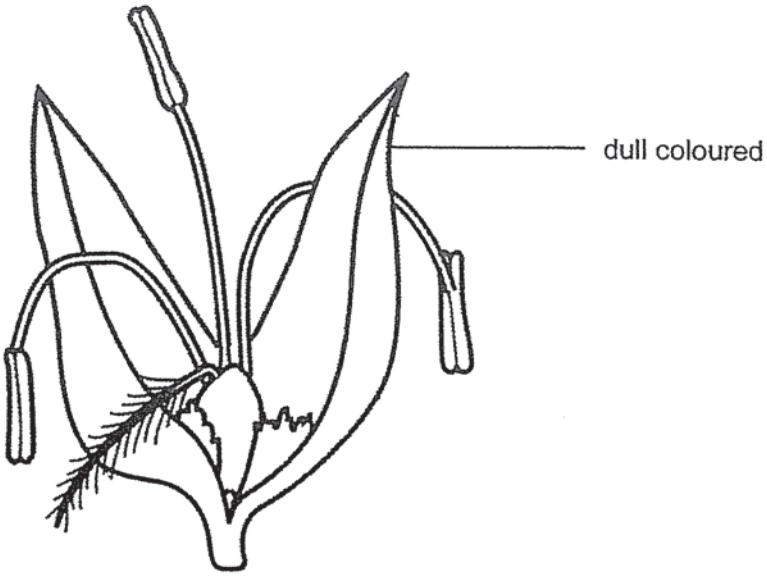

(c) State two characteristics that would most likely show that the flower above can be pollinated by wind. [2]

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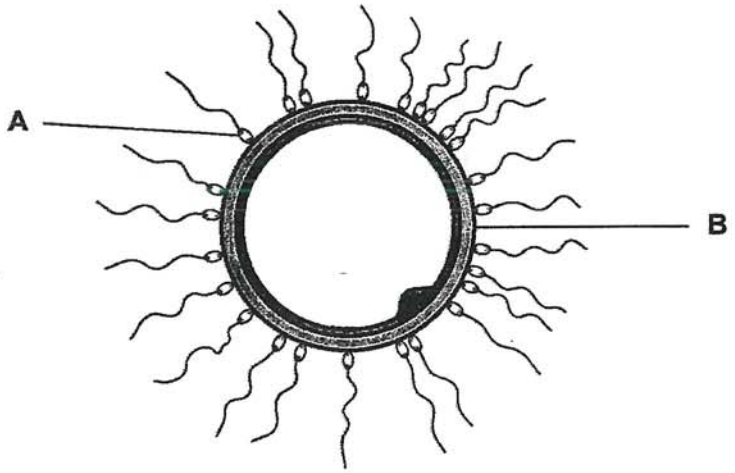
8. Study the diagram below carefully.



(a) Identify parts A and B. [1]

A: _____

B: _____

(b)(i) Identify the process that will happen in the diagram as shown above. [1]

_____

(ii) Describe the process that will happen in the diagram as shown above. [1]

_____

_____

_____

(c) In which part of the reproductive system would the fertilized egg develop into a baby? [1]

_____

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ANSWER KEY

YEAR : 2020
LEVEL : PRIMARY 5
SCHOOL : NANYANG
SUBJECT : SCIENCE
TERM : CA1

SECTION A

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

SECTION B

Q7 a	 Flower of plant X
b)	The pollen grains sticks on the bee's body and gets transferred from the anther to the stigma for pollination.
c)	The petals of the flower are dull in colour and the anthers are hanging out of the flower.
Q8 a	A : Sperm B: Egg
b	i. Fertilisation ii. One sperm fuses with the egg.
c	Womb

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