Catholic High School (Primary)
Primary 5 Science 2021
Weighted Assessment 1

MARKS	30

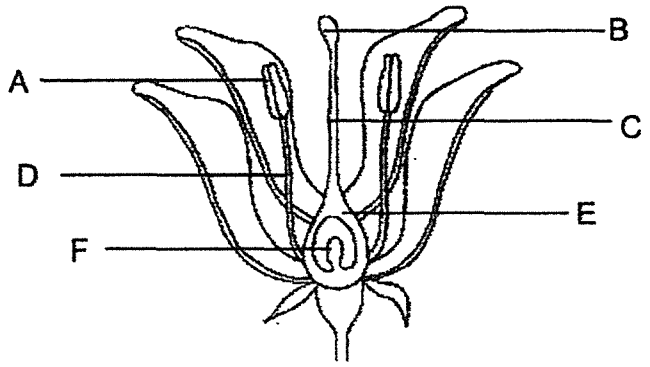
Name: _____ ( )

Class: Pri. 5 - _____

Date: 25 February 2021 Parent's Signature: _____

Booklet A (10 × 2 marks)
For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write its correct number in the brackets provided. (20 marks)

1 The diagram below shows the different parts of a flower.



Which parts of the flower will develop into a fruit with seeds?

(1) A and B
(2) B and C
(3) C and D
(4) E and F ( )

2 The table below describes fruits P, Q, R and S.

Fruit P	Fruit Q	Fruit R	Fruit S
• It has a few seeds. • It has a rough skin.	• It has many seeds. • It is juicy and fleshy.	• It has five seeds. • It has hooks.	• It has one seed. • It has a fibrous husk.

Based on the table, which statement best explains the method of dispersal of the fruit?

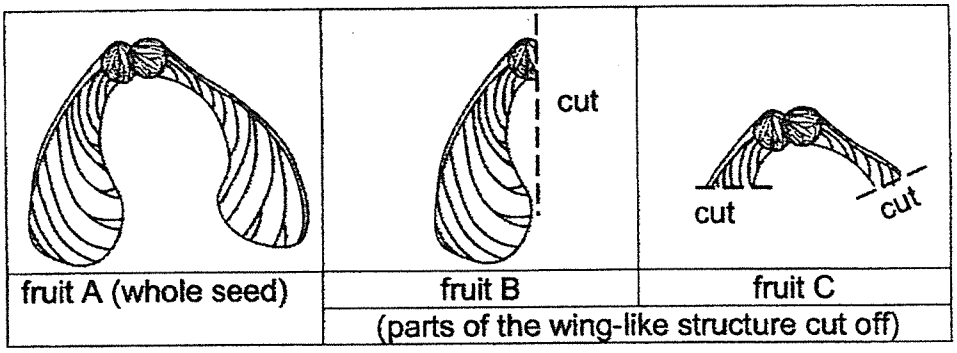
(1) Fruit R is dispersed by water because it has hooks.

(2) Fruit S is dispersed by water because it has a fibrous husk.

(3) Fruit Q is dispersed by animals because it has many seeds.

(4) Fruit P is dispersed by animals because it has a rough skin. ( )

3 Samuel used three similar fruits and cut off parts of the wing-like structure of fruits B and C as shown below.



fruit A (whole seed)	fruit B	fruit C
	(parts of the wing-like structure cut off)	

Samuel stood on a chair and dropped the fruits one by one in front of a fan that was blowing at a constant speed. He recorded the time taken for each fruit to reach the ground.

Samuel was trying to find out if the _____ affected the time taken for the fruit to reach the ground.

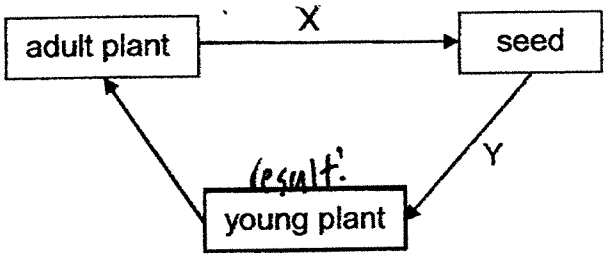
(1) speed of the fan

(2) size of the wing-like structure

(3) presence of the wing-like structure

(4) height from where the fruit was dropped ( )

4 Study the diagram below.

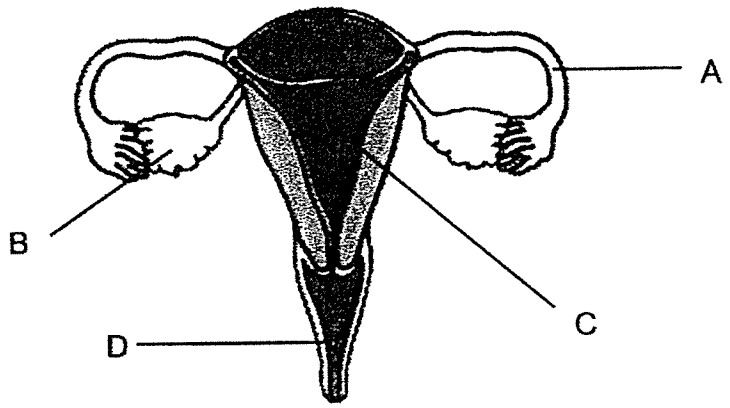


Which of the following is correct?

	Process(es) at X	Process(es) at Y
(1)	dispersal	pollination
(2)	fertilisation	pollination and germination
(3)	pollination and fertilisation	dispersal and germination
(4)	pollination and germination	fertilisation and dispersal

( )

5 The diagram below shows the human female reproductive system.

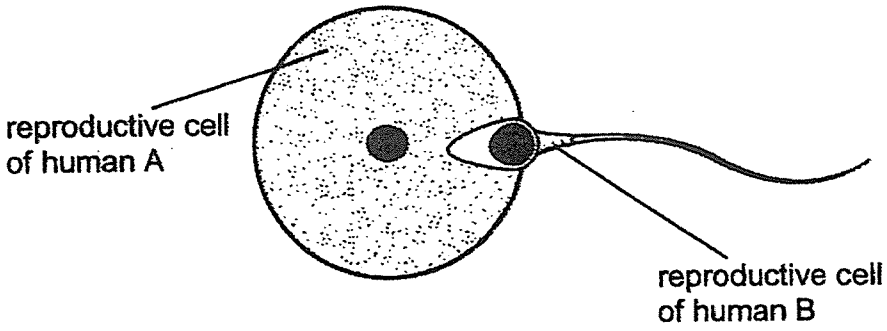


Which of the following parts A, B, C or D does the fertilised egg grow and develop in?

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

( )

6 The diagram below shows the reproductive cells of a male and female human.

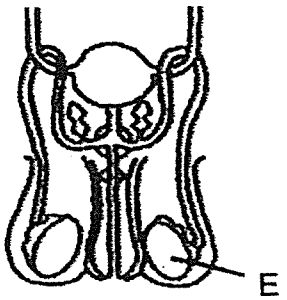


Which of the following correctly describes humans A and B and the process as shown in the diagram?

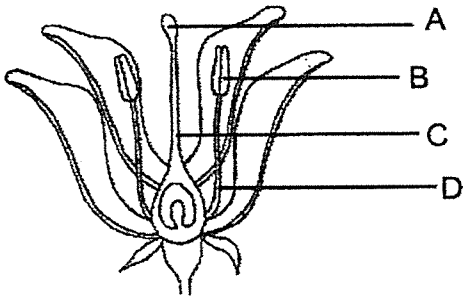
	Human A	Human B	Process
(1)	female	male	fertilisation
(2)	female	male	germination
(3)	male	female	germination
(4)	male	female	fertilisation

( )

7 The diagrams below show the reproductive parts of a human and a flowering plant.



human



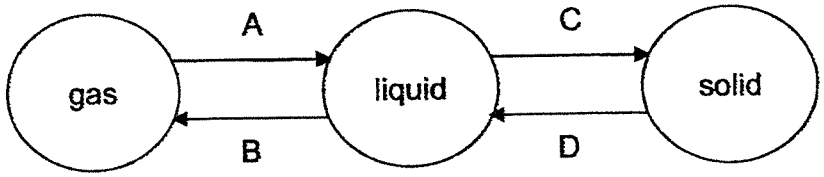
flowering plant

Which of the following parts of the flowering plant has the same function as part E?

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

( )

8 The diagram below represents the changes in the states of water.

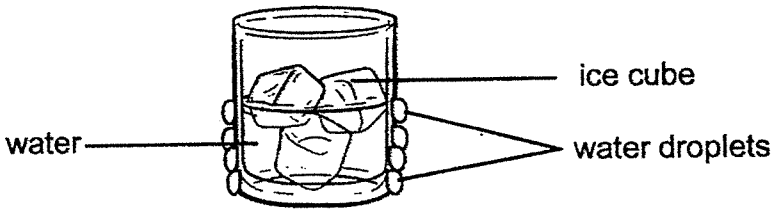


Which of the following does A, B, C and D represent?

	A	B	C	D
(1)	condensation	evaporation	freezing	melting
(2)	melting	evaporation	freezing	boiling
(3)	freezing	condensation	melting	evaporation
(4)	melting	freezing	boiling	condensation

( )

9 A glass was filled with some water and ice. Water droplets were formed on the outside of the glass within the next two minutes.



What was the reason for the water droplets to appear on the outside of the glass?

(1) The water was leaking from the glass.

(2) The water in the glass evaporated on the outside of the glass.

(3) The water vapour in the surrounding air condensed on the outside of the glass.

(4) The ice cubes were evaporating to form the water droplets on the outside of the glass.

( )

10 Aaron saw his ice cream melting on a hot day.

He made the following statements about the ice cream.

A The temperature of the ice cream increased.

B The ice cream gained heat from Aaron's hand.

C The melted ice cream on the floor was gaining heat from the surroundings.

Which statements are correct?

(1) A and B only

(2) A and C only

(3) B and C only

(4) A, B and C ( )

Booklet B (10 marks)

For questions 11 to 13, write your answers in this booklet.
The number of marks available is shown in brackets [ ] at the end of each question or part question. (10 marks)

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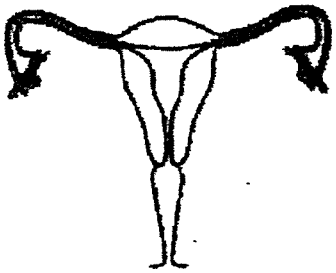
11 The diagram below shows a human female reproductive system with some parts removed.

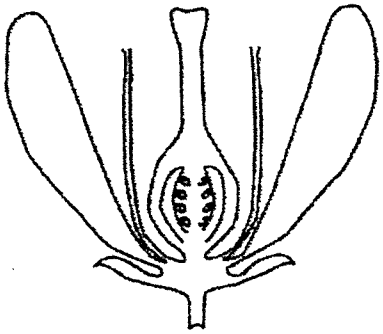


(a) Will reproduction be able to take place? Explain your answer. [2]

_____

_____

The diagram below shows the reproductive parts of a flower with some parts removed.



(b) Give a reason why the flower will still be able to reproduce. [1]

_____

_____

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SCORE	3

12 The seed of plant Z is shown below.

(a) State one characteristic that helps the seed in its dispersal. [1]

_____

The diagrams below show the dispersal of seeds of two plants.

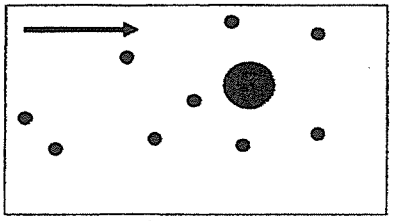

Diagram 1

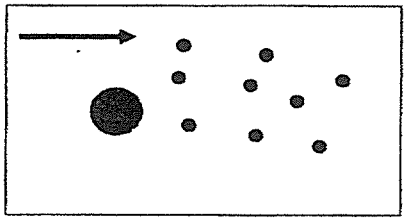

Diagram 2

Key:

direction of wind

parent plant

young plant

(b) Which diagram shows the dispersal of seeds of plant Z? Give a reason for your answer. [1]

_____

_____

(c) Explain why plants disperse their seeds far away from the parent plant. [2]

_____

_____

_____

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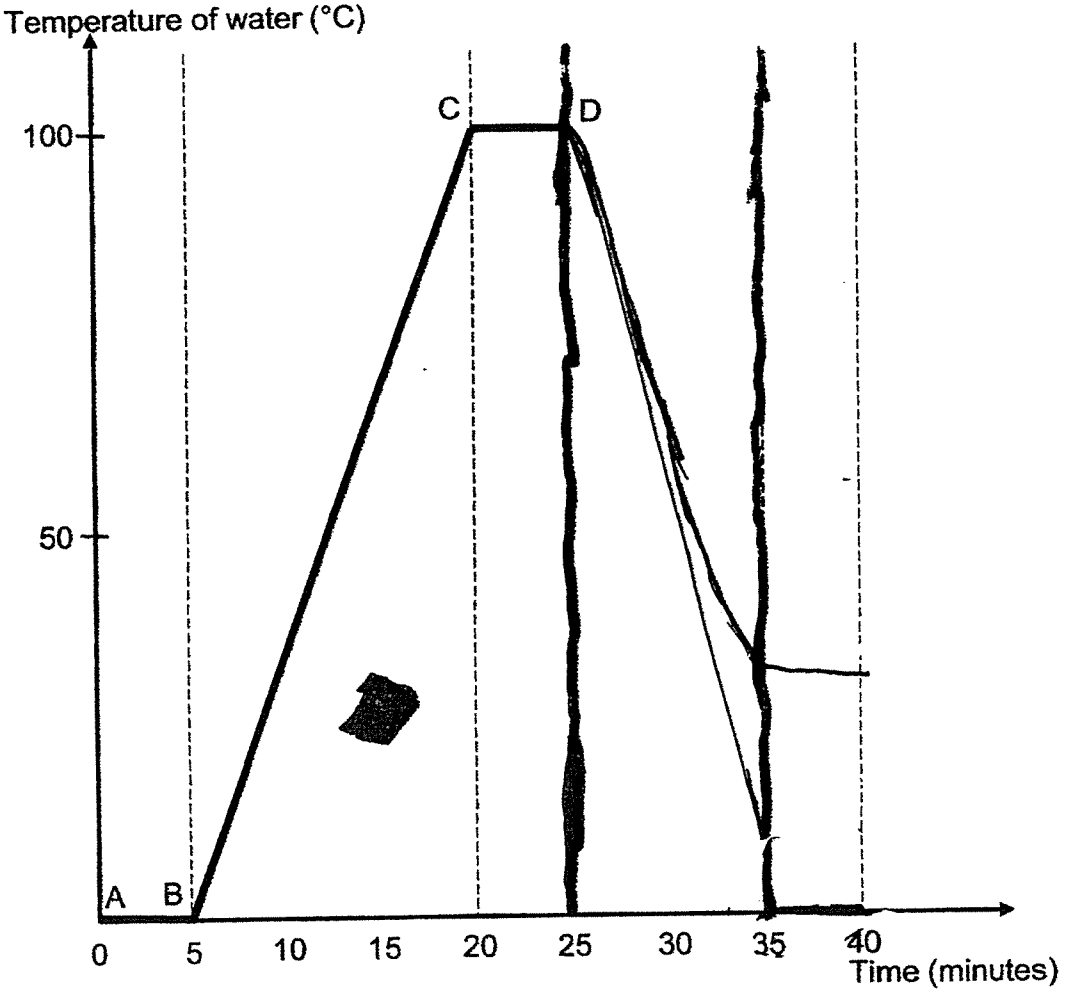
SCORE	4

13 Mr Lim heated a beaker of ice cubes for 25 minutes. He then left the set-up to cool down till it reached room temperature at the 35th minute.

The graph below shows the changes in temperature for the first 25 minutes.



(a) State the processes for AB and CD. [1]

AB: _____

CD: _____

(b) Complete the graph to show the change of temperature of water from the 25th to the 40th minute. [1]

(c) Identify the change in state of water that occurs at CD. [1]

_____ _____ state of water to _____ state of water.

End of Paper

SCORE	3

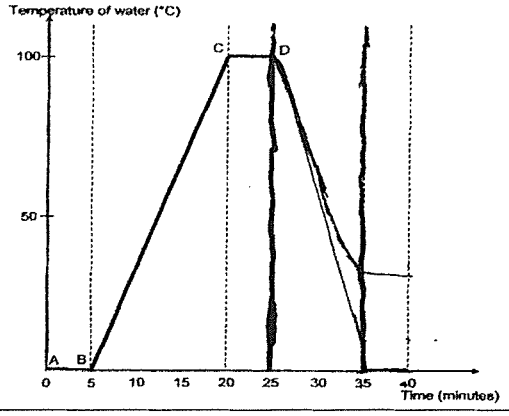
ANSWER KEY

YEAR : 2021
LEVEL : PRIMARY 5
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : SCIENCE
TERM : WEIGHTED ASSESSMENT 1

BOOKLET A

Q1	4	Q2	2	Q3	2	Q4	3	Q5	3
Q6	1	Q7	2	Q8	1	Q9	3	Q10	4

BOOKLET B

Q11	a)	No. There are no ovaries to produce eggs and fertalisation cannot take place.
	b)	Stigma can receive pollen grains from another flower and fertalisation can still take place.
Q12	a)	It's feathery-like structure
	b)	Diagram 2 as it's wing like structure allows the seeds to be blown in the direction of the wind
	c)	It is to prevent overcrowding for competition for water, nutrients, warmth and sunlight.
Q13	a)	AB: Melting CD: Boling
	b)	
	c)	Liquid, gaseous

END