CONTINUAL ASSESSMENT

(1.1)

2017 PRIMARY FIVE

SCIENCE

Booklet A

Name: _____ ()

Class: Primary 5 - _____

Date: 2 March 2017

Parent's Signature: _____

11 questions

22 marks

Total Time for Booklets A and B: 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions. Shade your answers in the Optical Answer Sheet (OAS) provided.

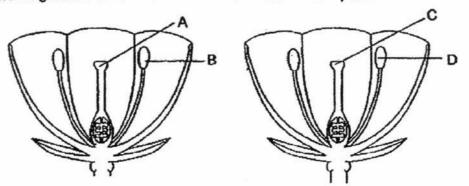
This booklet consists of 6 printed pages, excluding cover page.

Booklet A (11 × 2 marks)

For each question from 1 to 11, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade your answer on the Optical Answer Sheet.

(22 marks)

1 The diagram below shows two flowers from the same plant.



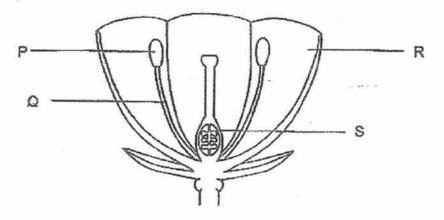
Pollination between these two flowers occurs when pollen grains are transferred from ______.

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

Arrange the following processes in the correct sequence.

- A pollination
- B fertilisation
- C germination
- D seed dispersal
- (1) $A \rightarrow B \rightarrow C \rightarrow D$
- (2) $A \rightarrow B \rightarrow D \rightarrow C$
- (3) $B \rightarrow C \rightarrow A \rightarrow D$
- (4) $B \rightarrow D \rightarrow C \rightarrow A$

- 3
- Which part of the flower, if removed, would prevent the flower from forming a fruit?



- (1) P
- (2) Q
- (3) R
- (4) S
- 4 Fanny dropped two fruit, X and Y, from the same height and measured the time taken for each fruit to reach the ground.



Which of the following set of readings is most likely correct?

	Time taken for fruit X to reach the ground (s)	Time taken for fruit Y to reach the ground (s)
))	3.3	5.3
2)	4.5	5.5
3)	5.3	3.3
}	4.5	4.5

5 Seeds W, X, Y and Z from a plant are placed under the conditions as shown in the table below. A tick (✓) in the box represents the presence of the condition for the seed.

seed	air water	water	light	temperature (°C)	
W	1	1	- •	35	
X		1		35	
Y	1			35	
Z	1		1	35	

Which seed, W, X, Y or Z, would most likely germinate?

- (1) W
- (2) X
- (3) Y
- (4) Z
- 6 The table below shows the different parts of the reproductive system of a plant and human.

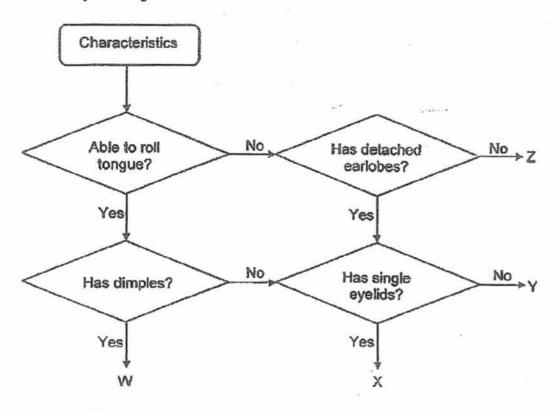
Parts of the reproduct	ive system
Plant	Human
x	testis
male reproductive cell in the pollen grain	Y
ovary	ovary
female reproductive cell in the _ ovule	Z

Which of the following correctly represents X, Y and Z?

	х	Y	Ζ.
(1)	anther	penis	ovule
(2)	filament	penis	egg
(3)	filament	sperm	ovule
(4)	anther	sperm	egg

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7 Study the diagram below.

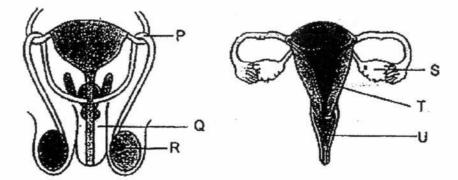


Cathy is unable to roll her tongue, has detached earlobes but does not have double eyelids. Which letter, W, X, Y or Z, best represents Cathy?

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

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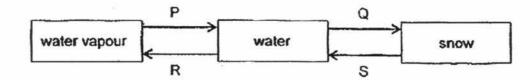
8 The diagram below shows the male and female reproductive systems.



Which of the following is correct?

ſ	Produces sperm cell	Produces egg cell	Place where the fertilised egg develops
)[Р	Т	U
) t	R	S	T
, t	S	R	U
) t	Q	S	T

9 The diagram below shows the changes in the state of water.



What do P, Q, R and S represent?

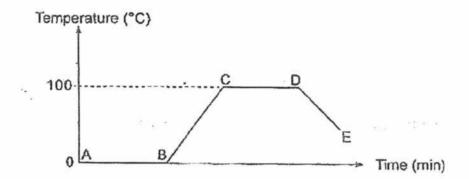
	Р	Q	R	S
1)	condensation.	freezing	evaporation	melting
2)	evaporation	melting	freezing	condensation
3)	condensation	freezing	; melting	evaporation
1)	evaporation	melling	evaporation	freezing

ø

10 Which one of the following correctly shows heat gain or loss for the processes?

Process		Heat Involved	
(1)	boiling	heat loss	
2)	2) melting heat lo		
3)	condensation heat gain		
4)	evaporation	heat gain	

11 A beaker of ice was heated to 100°C before it was left to cool. The changes in temperature are shown in the graph below.



Based on the graph above, which one of the following is correct?

	Melting	Boiling
(1)	AB	CD
(2)	AB	BC
(3)	DE	CD
(4)	DE	BC

End of Booklet A

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SCIENCE

Booklet B

22

18

40

Booklet B

Total

Name:	()
Class: Primary 5	а ————————————————————————————————————	
Date: 2 March 2017		
Parent's Signature:		Booklet A

6 questions

18 marks

Total Time for Booklets A and B: 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so. Follow all instructions carefully. Answer all questions. Write your answers in this booklet.

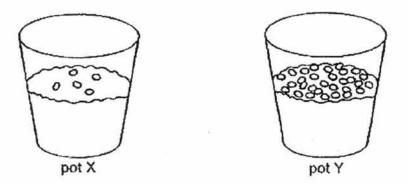
This booklet consists of 6 printed pages, excluding cover page.

Booklet B (18 marks)

For questions 12 to 17, write your answers in this booklet.

The number of marks available is shown in brackets [] at the end of each question or part question. (18 marks)

12 Yusri wanted to find out if overcrowding affects the growth of plants. The diagram below shows the seeds in pots X and Y before germination has taken place.



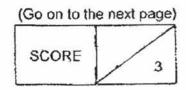
(a) The table below shows the variables changed or kept constant throughout the experiment. Write 'changed' or 'kept constant' in the boxes provided.

[1]

	Variables	
(i)	Amount of soil used	
(ii)	Amount of water used	
(iii)	Number of seeds used	

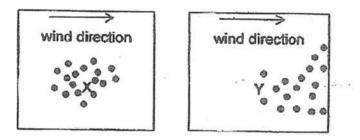
One week later, Yusri observed and concluded that overcrowding affects the growth of the plants.

(b) Explain why it is important for seeds to be dispersed far away from the [2] parent plant.



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13 Study the dispersal of seeds by plants X and Y in the diagram below.



- (a) Based on the diagram above, state the dispersal methods for the seeds [1] of plants X and Y.
 - (i) Plant X : Dispersed by _____
 - (ii) Plant Y : Dispersed by _____

.

The diagram below shows the fruit of a plant.



- (b) State the dispersal method for the fruit above. [1]
- (c) Explain your answer in (b)

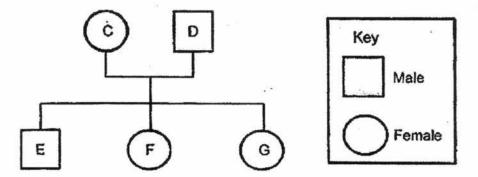
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[1]

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14 The diagram below shows the family tree of James and his two siblings.



The table below shows the observable characteristics that are passed on to the members of his family. A tick (\checkmark) in the box denotes the presence of the characteristics in that family member.

	Characteristics			
Family members	Attached earlobes	Single eyelids	Straight thumb	
C		1		
D			1	
E	~	1	1	
F		~	1	
G		1	· · · · · · · · · · · · · · · · · · ·	

- (a) Based on the family tree, which letter, C, D, E, F or G, represents [1] him? State the observable characteristic(s) which he has inherited from hisfather.
- (b) Based on the table above, write 'T' if the statement is true and 'F' if [1] the statement is false in the boxes provided.

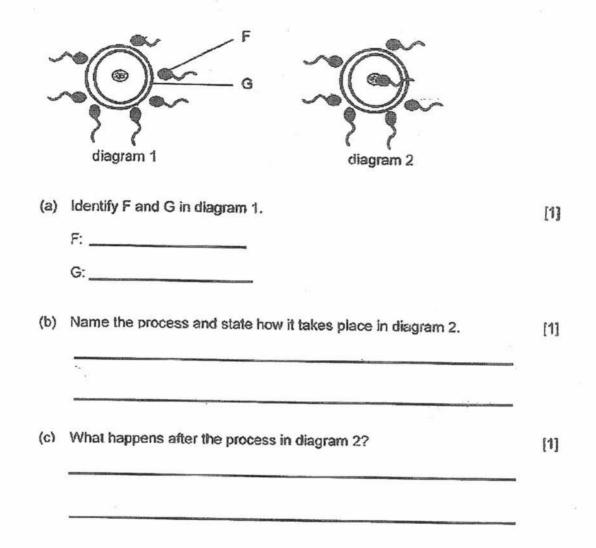
(i) The single eyelids characteristic is passed on only to females.		
(11)	The attached earlobes characteristic is passed on only to males.	

(c) James told his siblings that he has inherited his interest in reading [1] from his father. Do you agree with him? Why?

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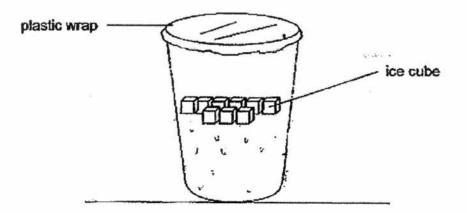
15 Study the diagrams below.



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SCORE	3

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16 Lydia took out a cup of ice water from the refrigerator and left it on the table in a room of 27°C as shown in the diagram below.



- (a) Draw water droplets on the diagram above to show where the droplets [1] would be formed.
- (b) What is the temperature of the ice cube when it is melting?

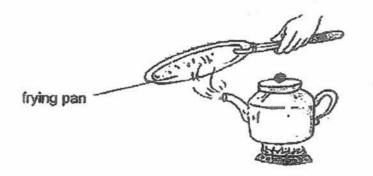
80 E S

[1]

ne next page)
2

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17 Osher boiled a kettle of water and placed a frying pan near the sprout of the kettle as shown in the diagram below.



- (a) Name the substance formed on the frying pan.
- (b) If the kettle of water is boiled for some time, what would happen to the volume of the water in the kettle?
- (c) What is the temperature of the water in the kettle when it is boiling? [1]
- (d) Write the change of state when water boils. [1]

From ______ state to ______ state

End of Booklet B

SCORE	4
	K

[1]

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YEAR : 2017 SCHOOL : CATHOLIC HIGH SCHOOL LEVEL : P5 SUBJECT : SCIENCE TERM : CA1

Booklet A

Q1	3	Q2	2	Q3	4	Q4	3	Q5	1
Q6	4	Q7	2	QS	2	Q9	1	Q10	4
Q11	1						1		1

Booklet B

Q12 (a)

Amount of soil used	Keep constant	
Amount of water used	Keep constant	
Number of seeds used	Changed	

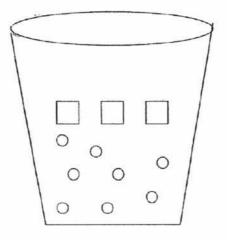
- (b) Overcrowding will lead to competition of light, water, nutrients and space, so if they are not dispersed far away from the parent plant, the young plants will not grow healthily.
- Q13 (a) Plant X: Dispersed by explosive action Plant Y: Dispersed by wind
 - (b) Water dispersal.
 - (c) The fibrous husk traps small pockets of air which allows the fruit to float.

Q14 (a) E is James. He inherited attached earlobes and a straight thumb from his father.

(b)

The single eyelids characteristics is passed on only to females.		
The attached earlobes characteristics is passed on only to males.	True	

- (c) No. Reading is not a characteristic that can be inherited from the parent.
- Q15 (a) F: Sperm cell G: Egg cell
 - (b) Fertilisation. The male reproductive cell fuses with the female reproductive.
 - (c) The egg will be fertilised and starts to develop into a baby.
- Q16 (a)



6

(b) 0°C

- Q17 (a)
- Water droplets. The volume of water in the kettle will decrease (b)
 - (c) (d) 100°C
 - liquid, solid