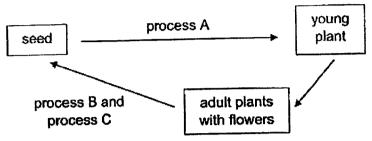
### NANYANG PRIMARY SCHOOL Term 1 Weighted Assessment Science Primary 5

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Nar	ne:		_ (	)	Date			
	ss: 5		· · · · ·	,		nt's signature:		
Des	r Paron	t/Guardian,	<u> </u>					
Ple	ase sign next da	the Weighted Assessm y. Any query should be	ent pa raised	per and	d have y same til	our child/ward re ne when returnin	eturn   g the	it
<u>Sec</u>	tion A: I	<u> Multiple Choice Questio</u>	ns (12	marks	1			
For com	each qui ect answ	estion from 1 to 6, four o <sub>l</sub> ver. <b>Indicate your choic</b> e	otions ( • in the	1, 2, 3 bracke	and 4) a ets prov	re given. One of the	hem is	; the
1.	made	nda conducted an experin of different materials, C a h plate.	nent as and D.	shown She pla	below. ced an i	The plates are ider dentical ice cube o	ntical I on the	but top
		plate made of mate	rial C		plate n	nade of material D		
				ice (	cube			
	She o	bserved that the ice cube nents below.	on ma	terial C	melted	first and made the	West to making	
	Α	Material D gained heat	from t	he ice c	ube.			
	В	Both ice cubes lost hea	at to the	e surrou	ınding a	ir.		
	С	Material C is a better c	onduct	or of he	at than	material D.		
	Which	of the following statemer	nt(s) ab	ove is/a	are wror	ng?		
	(1)	A only			(2)	C only		
	(3)	A and B only			(4)	B and C only		
						•	(	)

 A flowering plant goes through processes A, B and C in its life cycle as shown in the diagram below.

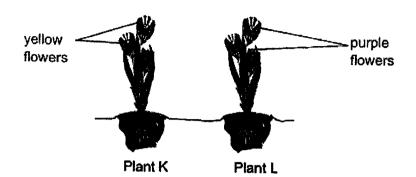


Process B takes place before process C.
Which of the following correctly represents processes A, B and C?

Process A	Process B	Process C
fertilisation	pollination	germination
pollination	germination	fertilisation
germination	fertilisation	pollination
germination	pollination	fertilisation

)

3. The diagram below shows two similar plants, K and L, of the same kind.



A farmer planted the seeds of plant K only on a new plot of land. After a few weeks, the planted seeds grew into new plants and produced yellow flowers only.

Based on the observation, the famer made the following statements:

- A The new plants inherited the characteristics from plant K only.
- B The new plants inherited the characteristics from plant L only.
- C The new plants did not inherit the characteristics from both plants K and L.

Which of the following statement(s) above best explains the colour of the flowers produced?

(1) A only

(2) C only

(3) A and C only

(4) B and C only

)

4. The table below shows the characteristics of Louis and his parents.

Characteristics	Louis' father	Louis' mother	Louis
Type of hair	straight	curly	curly
Eyelid	double	single	double
Lips	thin	thick	thin
Earlobe	attached	detached	attached

How many characteristic(s) did Louis inherit from his mother?

- (1) 1
- (2) 2
- (3) 3
- (4) 4

5.	Which of the following statement(s) regarding the sexual reproduction in humans
	is/are true?

- A The sperm cell is produced by the testes.
- B The unfertilised egg will develop in the womb.
- C The ovary produces and fertilises the eggs on its own.
- D The developing baby will obtain digested food from the mother.
- (1) A and B only

(2) A and D only

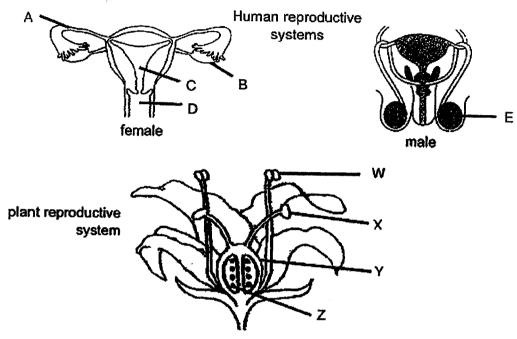
(3) B and C only

(4) A, B, C and D

( )

)

6. The reproductive systems of humans and a flowering plant are shown in the diagram below.



Which one of the following correctly shows the function of the parts of the human and plant reproductive systems?

Function	Human reproductive system	Plant reproductive system
produces ovule	Α	W
produces female reproductive cells	E	Z
produces male reproductive cells	В	×
place where fertilized eggs develop	С	Y

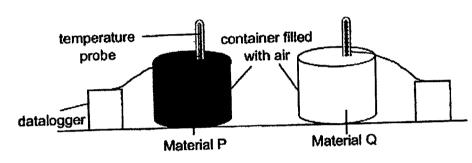
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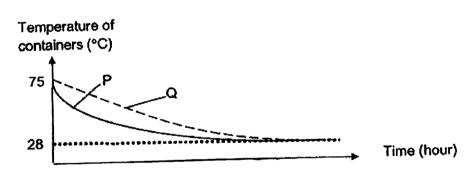
# Section B: Open-Ended Questions (8 marks)

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

Junxiong conducted an experiment using two identical containers filled with hot air as shown below. Both containers are covered with two different materials, P and Q. The temperatures in both containers were the same at the start of the experiment. The experiment was conducted in a room at 28°C.



Junxiong recorded the temperatures as shown in the graph below.

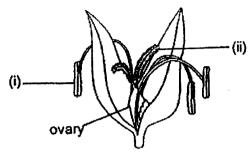


(a) What can be observed about the temperatures of the containers over time? [1]

## Continue from previous page

(b)	Bas prop	ed on the res erty to wood	sults of the exp I and steel? U	eriment, which material, P or Q, has a similar se each letter only once.
	(i)	Wood:	Material _	
	(ii)	Steel:	Material _	
eleci	inc ove	n in the shoi	test time poss	
(c)	the s	n matenat, F hortest time	or Q, should? Explain your	ne use so that the food will be heated in answer. [2]
-				
_				
			<del></del>	

8. The diagram below shows a wind-pollinated flower X with both male and female parts. Part (ii) has a feathery structure.



wind-pollinated flower

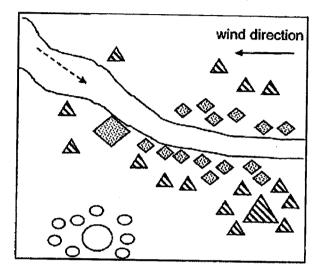
(a)	Identify the male and female parts of flower X labelled (i) and (ii).	[1]
	(i)	
	and the state of t	

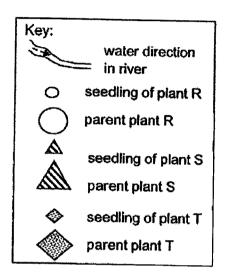
When the male parts of flower X are removed, flower X could still grow into a fruit.

(b)	Explain why this happened.	[2]
_		
-		

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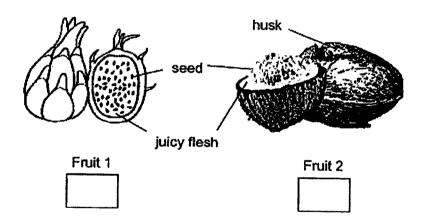
The diagram below shows the growth of the seedlings of plants R, S and T found at distances away from the parent plants.





(c) Based on the diagram above, which of the following will most likely be the fruits of Plants R, S or T? Fill in the boxes with letters R, S or T correctly.

[1]



- End of Paper -



#### Nanyang Primary School P5 SCIENCE WA1 2023 Suggested Answer Key

### Section A

1	3
2	4
3	1 and 3
4 .	1
5	2
6	2

Qn No	Suggested Answers
7.	
(a)	The temperature of the containers decreases until they reach a constant temperature of 28°C.
(bi)	Wood: Material Q
(bii)	Steel: Material P
(c)	Choice: Material P Data: The temperature of the container covered with P decreases faster than Q. Explanation: Material P is a bottom and the container.
and the state of t	Explanation: Material P is a better conductor of heat than Material Q. Heat will be transferred from the oven to the food faster:
8.	
(ai)	Anther
(aii)	Stigma
(b)	The pollen grain was transferred from the anther to the stigma before it was removed. The flower will then undergo fertilisation. The ovary will develop into the fruit.
(c)	Fruit 1: S Fruit 2: T or S

