

2021 PRIMARY 5 WEIGHTED ASSESSMENT 2

Name :	www.commonter.com	_()	Date:
Class: Primary 5 ()			Duration: <u>40 minutes</u>
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SCIENCE

INSTRUCTIONS TO CANDIDATES

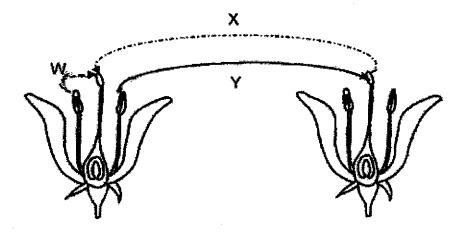
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully,
- 4. Answer all questions.
- 5. Write your answers in the booklet.

Booklet A	16
Booklet B	14
Total	30

For each question from 1 to 8, 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.

(16 marks)

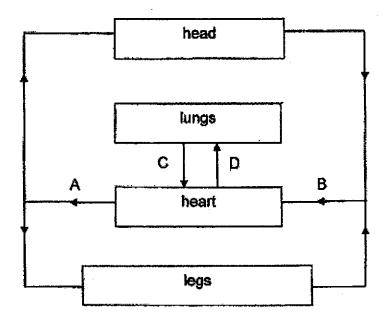
1. The diagram below shows two flowers from the same plant.



Which of the arrows show(s) pollination taking place?

- (1) Wonly
- (2) W and Y only
- (3) X and Y only
- (4) W, X and Y

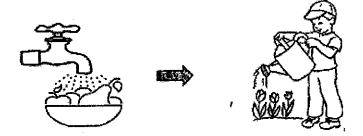
2. The diagram below shows the movement of blood in some parts of the human circulatory system.



Which of the above blood vessels carry blood that is richer in carbon dioxide?

- (1) A and B
- (2) A and C
- (3) B and D
- (4) C and D ()
- 3. Which of the following takes place in plants but not in humans?
 - (1) The fertilised egg is found in the ovary.
 - (2) The fertilised egg develops in the womb.
 - (3) Reproductive cells are produced in testes.,
 - (4) The male reproductive cell fuses with the egg. ()

4. Study this picture below.



Tom used water that was used to wash fruits to water the plants in his garden.

What method(s) of water conservation is/are involved?

- (1) recycling
- (2) reducing and reusing
- (3) reducing and recycling
- (4) reducing, reusing and recycling

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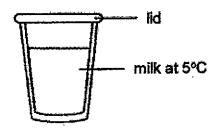
Study the table below.

	State of substance at			
Substance	25 °C	45 °C	85 °C	
×	solid	solid	solid	
Υ	solid	solid	liquid	
	liquid	liquid	gas	

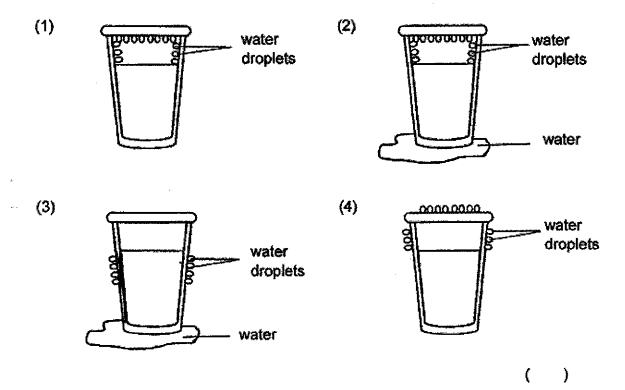
Which of the following is a correct conclusion?

- (1) The melting point of substance Y is 85 °C.
- (2) The boiling point of substance Z is the highest.
- (3) Substance Y has a lower boiling point than substance Z.
- (4) Substance X has a higher freezing point than substance Y.

6. Abdul took a glass of cold milk from the refrigerator and placed & on a table in the kitchen at room temperature.



Which of the following would he observe after 20 minutes?



Plants lose water through tiny openings on both the upper and lower surfaces
of their leaves. These tiny openings are called stomata.

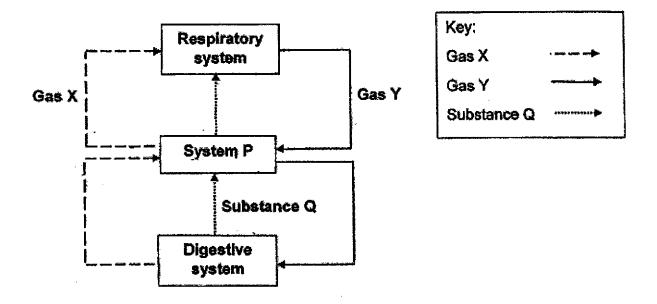
Some surfaces of leaves on a plant were coated with oil. The plant was placed in a field with bright sunlight. The volume of water loss after three hours was recorded in the table below.

Leaf	Surface coated with oil	Volume of water loss through stomata of leaf (cm³)
R	upper surface only	25
ş	none	40
Ť	lower surface only	10

Based on the results in the table, which of the following is a correct conclusion about the stomata on the leaves?

- (1) There are more stomata on the lower surface.
- (2) The stomata on both surfaces are equal in size.
- (3) The stomata on the lower surface are smaller in size.
- (4) There are equal number of stomata on both the surfaces. ()

8. The diagram below shows the movement of substance Q, gases, X, and Y, to system P and also to other human organ systems.



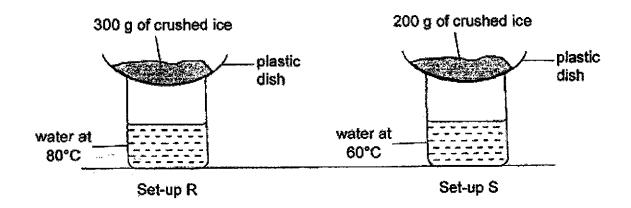
Which of the following best represents P, Q, X and Y?

	Р	Q	X	Y
(1)	muscular system	waste	oxygen	carbon dioxide
(2)	muscular system	digestive juice	carbon dioxide	oxygen
(3)	circulatory system	digested food	oxygen	carbon dioxide
(4)	circulatory system	digested food	carbon dioxide	oxygen

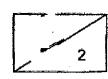
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BN 4		(14 mar
	Process T occurs in a plant. The diagram shows how its fruit is f flower.	ormed from
	Pollination Process T	
	flower	fruit
	(a) Describe process T.	1
	(b) In a garden where many plant Q grow, some plant Q have or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	
	or only green fruits. A gardener collected seeds from plant	Q with pur
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	Q with purp
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	Q with purp
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	Q with purp
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	Q with purp
	or only green fruits. A gardener collected seeds from plant fruits to grow new plants.	

10. Two set-ups, R and S, were prepared to show how the temperature of the water affected the rate at which 'rain' was formed.

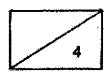


(a) Explain why the test is not a fair one.	[1]
(b) Describe a change to be done to Set-up S to make the test a fair one.	[1]

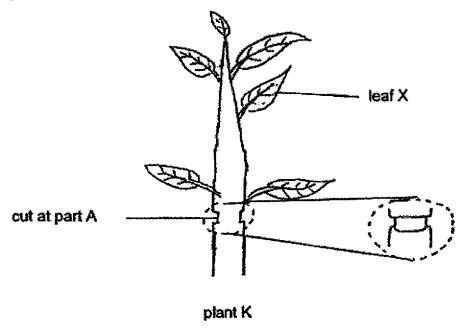


<u> </u>		rain		
Draw four cycle.	arrows (-	——►) in the dia	gram above to complete th	ie v
		ne of the process (that is needed to o	beside the correct arrow in the strain to the strain th	the
(ii) West cloth	es dry fast	ter when the surro	unding temperature increas	res.

11.



12. Andy carried out an experiment on a plant K. He cut out only the food-carrying tubes at part A.



(a) Andy found substance P in the soil. After a few days, he observed that leaf X also has substance P. Explain why substance P is found in leaf X. [1]

(b) One day, Andy observed some insects eating their way through the stem of plant K. This affects the growth of the roots. Explain why. [1]



13.	Heat is given out by the body when energy is produced in the body.
	Five workers were trapped in freezer room that was locked from outside. Some of them started to jog on the spot to keep themselves warm while waiting for help.
	(a) State if their breathing rates and heart rates increased or decreased after they started jogging. [2]
	(i) breathing rate :
	(ii) heart rate :
	(b) Explain your answer for part (a)(ii). [2]

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End of Paper

P5 Science WA 2 Suggested Answers

MCQ	1	2. (3)	3. (1)	4. (2)	5. (4)	6. (3)	7. (1)	8. (4)	
	Description	of fertilisation					ENGINEERS A (PERMIT		
9(a)	it is fusion	of a male repro	oductive cell a	nd a female re	productive cell				
	definition a need anly t	f inherit; passil to state: to you	ng on of traits ing plant or from	from perents to m parent plant	offspring		мунундару о мунунунунунун айылын айылык сойгазуал		
9(b)	The characteristic of purple fruits is passed on from the parent plant to the young plants. Or								
	The charac	teristic of purp	le fruits is inte	erited by the yo	rung plants fro	m the parent pla			
•	Link income	oct veriable (dia	fference in the	mass of the id	e) to affecting	results of the ex	periment.		
10 (a)						ale of condensat			
10 (b)	Add 100g c	of crushed ice	o setup S.						
11 (a)	douc		rain	(b) (l) eva	nd		·	. woodparked country of	
	show heat	source & heat	destination to	show heat trai	ısfer				
11(b)(ii)	The water i	in the wet cloth	es will gain m	ore heat from (he surrounding	gs (heat source)	so the water ev	raporates fast	
:	Can explair	n using amou	nt or speed o	of heat					
12	The roots a	bsorb P from t	he soil along v	with the water.	The water-car	rying tubes then	transport P to I	eaf X.	
12 (b)	The Insects and would I	i have eaten the not grow well.	e food-carryin	g tubes (cause	s) so the roots	could not receiv	e food from the	leaves (effect	
13(a)	breathing n heart rate	ate : increas						* Walter and the second	
13(b)	Their heart	needs to pum	A facility and the						