

2021 PRIMARY 5 WEIGHTED ASSESSMENT 2

Name :	wygonio gracina postania	_())	Date:
Class: Primary 5 ()			Duration: 40 minutes
		Paren	nt's signature	

SCIENCE

INSTRUCTIONS TO CANDIDATES

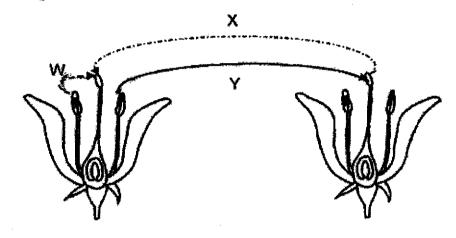
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully,
- 4. Answer all questions.
- 5. Write your answers in the booklet.

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.

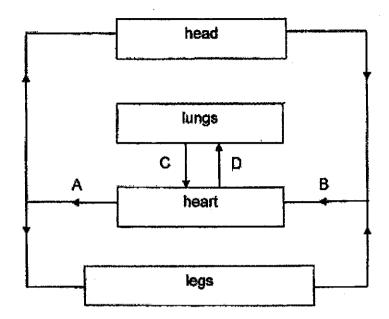


Which of the arrows show(s) pollination taking place?

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

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

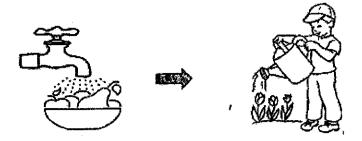


Which of the above blood vessels carry blood that is richer in carbon dioxide?

- (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

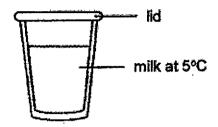
5. Study the table below.

	S	tate of substance a	t
Substance	25 °C	45 °C	85 °C
x	solid	solid	solid
Y	solid	solid	liquid
Z	liquid	liquid	gas

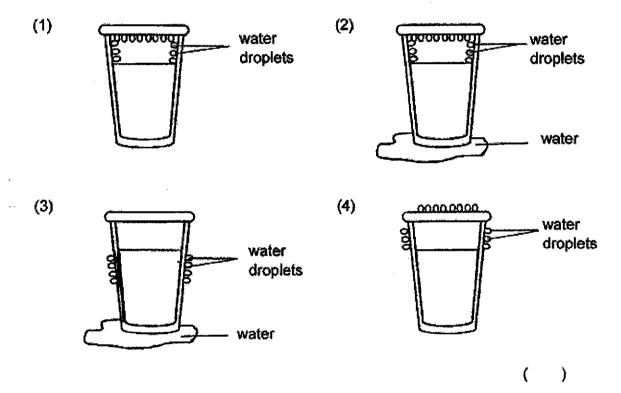
Which of the following is a correct conclusion?

- (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?



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

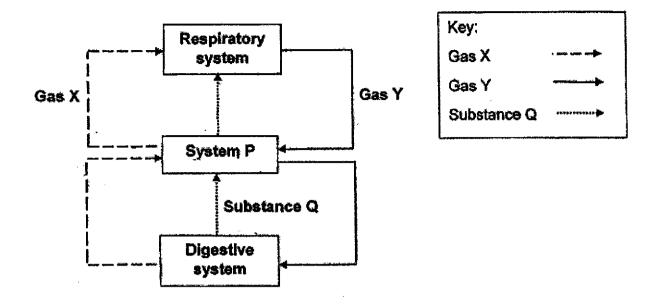
Some surfaces of leaves on a plant were coated with oil. The plant was placed in a field with bright sunlight. The volume of water loss after three hours was recorded in the table below.

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, X₂and Y, to system P and also to other human organ systems.



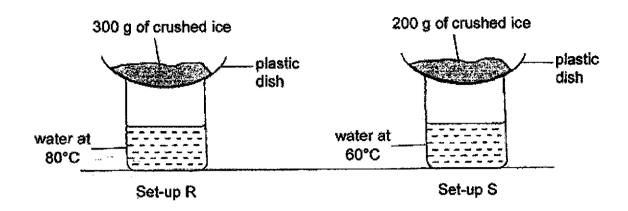
Which of the following best represents P, Q, X and Y?

	P	Q	Х	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	

()

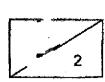
Process T fruit grow, some plant Q have only purple for collected seeds from plant Q with pu	(14 ma
fruit I grow, some plant Q have only purple for collected seeds from plant Q with pu	Process T occurs in a plant. The diagram shows how its fruit is formed from
I grow, some plant Q have only purple for collected seeds from plant Q with pu	Poliination Process T
er collected seeds from plant Q with pu	flower fruit
er collected seeds from plant Q with pu	(a) Describe process T.
er collected seeds from plant Q with pu	
er collected seeds from plant Q with pu	
vill have only purple fruits.	or only green fruits. A gardener collected seeds from plant Q with pu fruits to grow new plants.
	Explain why these new plants will have only purple fruits.

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]
	<u> </u>	

(b) Describe a change to be done to Set-up S to make the test a fair one.	[1]



11. The diagram below represents the different stages in the water cycle.

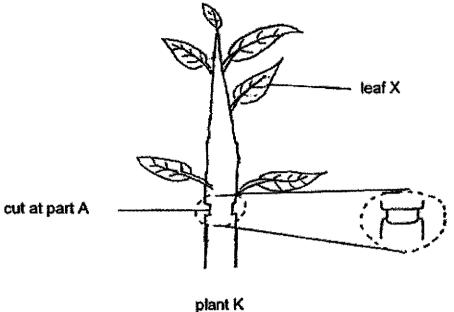
clouds rain

- (a) <u>Draw</u> four arrows (——>) in the diagram above to complete the water cycle.
- (b)(i) Write down the name of the process (beside the correct arrow in the water cycle above) that is needed to dry wet clothes. [1]
 - (ii) Wet clothes dry faster when the surrounding temperature increases.

 Explain why the wet clothes dry faster.

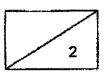
 [2]

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 the	at leaf
X also has substance P. Explain why substance P is found in leaf X.	[1]

(b) One day, Andy observed some insects eati	ng 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

	· · · · · · · · · · · · · · · · · · ·		3, (1)	4. (2)	5. (4)	6. (3)	7. (1)	8. (4)
	Description	of fertilisation				111111111111111111111111111111111111111	HADING A THEORY	
9(a)	it is fusion o	of a male repro	oductive cell a	nd a female re	productive cell			
	definition of need only to	inherit: passil o state: to you	ng on of traits i ng plant or froi	from perents to m parent plant	o offspring	addinana da baharan aran aran aran aran aran aran ara		
9(b)	The charac	teristic of purp	le fruits is pas	sed on from th	e parent plant	to the young pla	nts. Or	
	The charact	teristic of purp	le fruits is intx	wited by the yo	oung plants fro	m the parent pla	nt.	
TATAL THE PARTY OF	, 		.	*				
	ынк інсогт	ict vanable (on	merence in the	mass of the ic	e) to affecting	results of the ex	periment.	
10 (a)	The differen	nce in the mas	s of the crush	ed ice will affe	ci the results/n	ate of condensat	ion.	
10 (b)	Add 100g o	f crushed ice l	o setup S.		and the state of t		···	
11 (a)	cioud		eter vapour	rivers a	1			
	show heat s	source & heat	destination to	show heat tran	nsfer		And the second s	
11(b)(ii)	The water in	n the wet cloth	ies will gain mo	ore heat from I	the surroundin	gs (heat source)	so the water ev	/aporates fast
100	Can explain	using amou	nt or speed o	of heat				
12	The roots a	bsorb P from t	the soil along v	with the water.	The water-car	rying tubes then	transport P to I	eaf X.
12 (b)	The Insacts and would r	have eaten the not grow well.	e food-carryin	g tubes (cause	e) so the roots	could not receiv	e food from the	leaves (effect
13(a)	breathing ra	ete : Increas		A Company of the Comp	The title is a market transfer than	arridon en escalador en como acomo de encolar en entre e		
\-								
13(b)	Their heart		- F					