

### **2021 PRIMARY 5 WEIGHTED ASSESSMENT 2**

Name :		_( )		Date:
Class : Primary 5 (	<b>)</b>			Duration: 40 minutes
		Parent	rs signature	

# **SCIENCE**

#### **INSTRUCTIONS TO CANDIDATES**

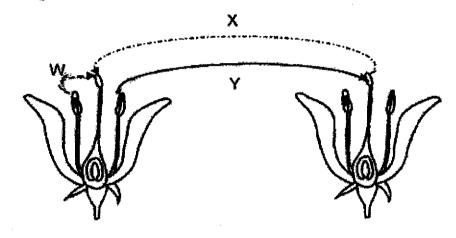
- 1. Write your name, class and register number.
- 2. Do not turn over this page until you are told to do so.
- 3. Follow all instructions carefully,
- 4. Answer all questions.
- 5. Write your answers in the booklet.

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.

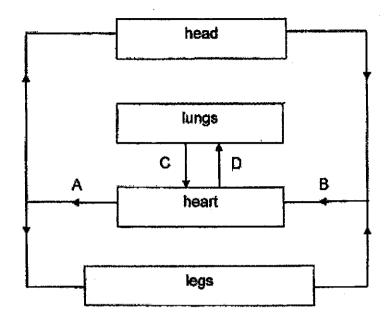


Which of the arrows show(s) pollination taking place?

- (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.

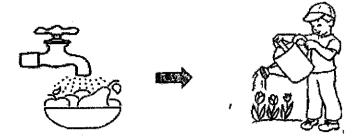


Which of the above blood vessels carry blood that is richer in carbon dioxide?

- (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

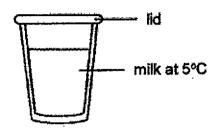
5. Study the table below.

Substance	S	tate of substance a	t
	25 °C	45 °C	85 °C
×	solid	solid	solid
Υ	solid	solid	liquid
	liquid	liquid	gas

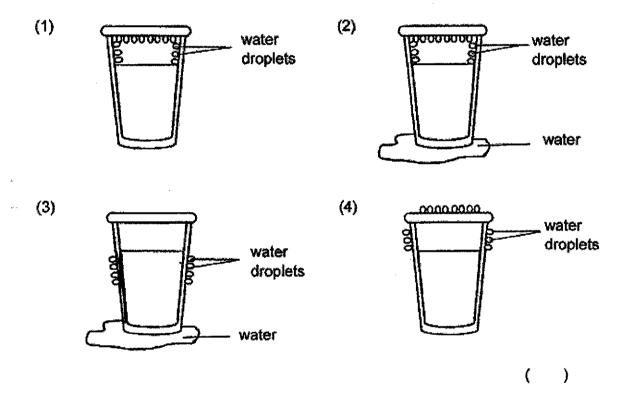
Which of the following is a correct conclusion?

- (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?



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

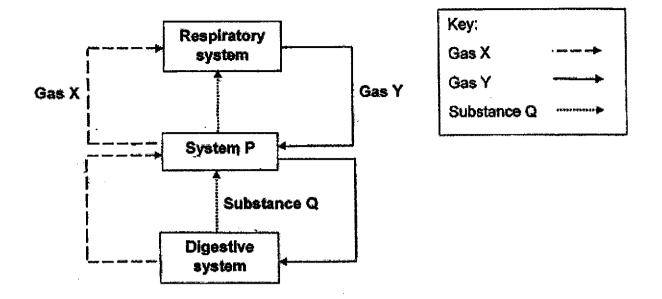
Some surfaces of leaves on a plant were coated with oil. The plant was placed in a field with bright sunlight. The volume of water loss after three hours was recorded in the table below.

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, X<sub>2</sub>and Y, to system P and also to other human organ systems.



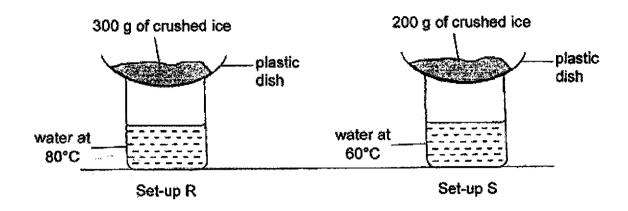
Which of the following best represents P, Q, X and Y?

	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

( )

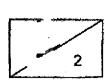
	(14 ma
Process T occurs in a plant. The diagram shows ho flower.	w its fruit is formed from
Poliination — Proces	sT
flower	fruit
(a) Describe process T.	
(b) In a garden where many plant O grow, some pla	nt O have only number
(b) In a garden where many plant Q grow, some pla or only green fruits. A gardener collected seeds fruits to grow new plants.	
or only green fruits. A gardener collected seed:	s from plant Q with pu
or only green fruits. A gardener collected seeds fruits to grow new plants.	s from plant Q with pu
or only green fruits. A gardener collected seeds fruits to grow new plants.	s from plant Q with p
or only green fruits. A gardener collected seeds fruits to grow new plants.	s from plant Q with pu
or only green fruits. A gardener collected seeds fruits to grow new plants.	s from plant Q with p

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]



11.	The diagram below represents the different stages in the water cyc	le.
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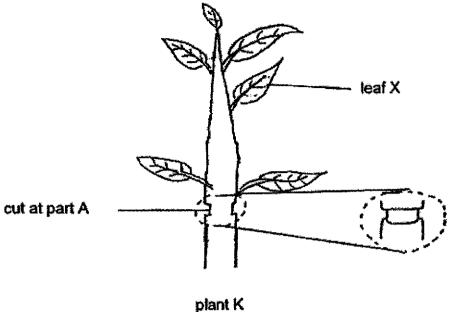
clouds rivers and seas

- (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.

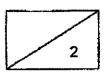
    [2]

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



(a)	Andy found	d substance	P in the soil	l. After a few o	days, he obs	erved that	leaf
	X also has	substance P	. Explain w	hy substance	P is found in	n leaf X.	[1]

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

	1. (2)	2. (3)	3, (1)	4. (2)	5. (4)	6. (3)	7. (1)	8. (4)
	Description of fertilisation							
9(a)	it is fusion of a male reproductive cell and a female reproductive cell.  definition of inherit; passing on of traits from parents to offspring need only to state: to young plant or from parent plant							
9(b)	The characteristic of purple fruits is passed on from the parent plant to the young plants. Or							
	The characteristic of purple fruits is inherited by the young plants from the parent plant.							
AS THE PERSONNEL PROPERTY OF THE PERSONNEL P	>		<b>.</b>	*				
	LINK INCOME	ict venable (dr	rerence in the	mass of the jo	e) to affecting	results of the ex	periment.	
10 (a)	The difference in the mass of the crushed ice will affect the results/rate of condensation.							
10 (b)	Add 100g o	f crushed ice l	o setup S.		and the state of t		···	
11 (a)	cloud		rain	rivers a	1			
	show heat s	source & heat	destination to	show heat tran	nsfer		And the second s	
11(b)(ii)	The water l	n the wet cloth	es will gain mo	ore heat from I	the surroundin	gs (heat source)	so the water ev	/aporates fast
	Can explain	i using amou	nt or <b>speed</b> o	f heat				
12	The roots a	bsorb P from t	he soil along v	vith the water.	The water-car	rying tubes then	transport P to I	eaf X.
12 <b>(</b> b)	The insects have eaten the food-carrying tubes (cause) so the roots could not receive food from the leaves (effect and would not grow well.							
13(a)	breathing re	ate : Increas		The state of the s	**************************************	ายเหมือง ของ (ของ ของข้องจอง (()) ของ (()) การแบบ (()) ของ (())		- Anna Anna Anna Anna Anna Anna Anna Ann
		VIII.						
13(ъ)		needs to pump body/body ce		more oxygen	and more dig	ested food can b	e transported b	y the blood to