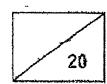
Ai Tong School Primary 5 Science 2022 Term 1 Weighted Assessment



Nam	ie;)	Date:
Class	s: P5 _		Duration: 30 minutes
Sect	ion A	(8 marks)	
For a	each q e your	question from 1 to 4, four options are given. One of the choice (1, 2, 3 or 4) and write your answer in the brack	em is the correct answer. ket provided.
1	Whic	ch of the following statements about cells is correct?	
	(1) (2) (3) (4)	Cells can be seen with the naked eye. Cells have-fixed shapes and structures. Cells are unable to reproduce on their own. Cells are able to react to changes in the environment.	{ }
2	The	diagram shows two flowers from the same plant.	:
	~	C C C C C C C C C C C C C C C C C C C	
	Whic	th pair of arrows shows pollination taking place?	
	(1) (2) (3) (4)	A and B only B and C only A and D only C and D only	
			(Go on to the next page)

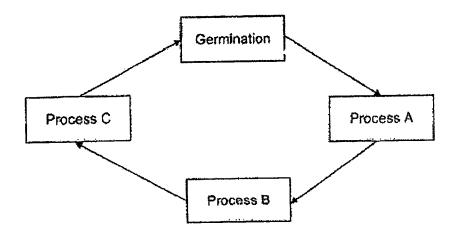
3 In the table below, a tick (</) shows the parts that cells P, Q, R and S have.

The second section of the second seco	Cell P	Cell Q	Cell R	Cell S
Cytoplasm		V	-	
Cell membrane	COLUMN TO THE PROPERTY OF THE PARTY OF THE P	1		
Nucleus	*			a para magang algo 15000000000000000000000000000000000000
Cell wall		-		
Chloroplasts	V		A CONTRACTOR OF THE PROPERTY O	<u> </u>

Based on the information provided, which statement is correct?

- (1) Cell Q makes its own food.
- (2) Cells P and Q are plant cells.
- (3) Cells R and S are from a plant.
- (4) Cells Q, R and S are from an animal.

The diagram below shows the processes involved in the reproduction of a flowering plant.



Which of the following correctly identifies processes A, B and C?

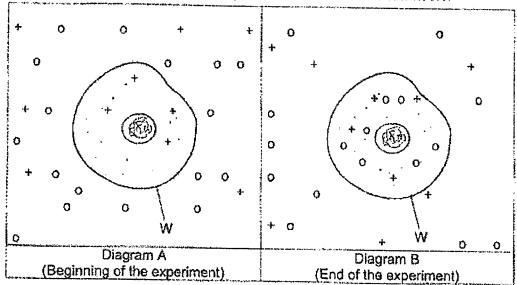
í	Process A	Process B	Process C
(1)	Seed Dispersal	Pollination	Fertilisation
(2)	Seed Dispersal	Fertilisation	Pollination
(3)	Fertilisation	Pollination	Seed Dispersal
(4)·	Pollination	Fertillsation	Seed Dispersal

Section B (12 marks)

For questions 5 to 8, write your answers in the spaces provided.

The number of marks available is shown in bracket [] at the end of each question or part question.

A cell was placed into a solution at the beginning of the experiment as shown in Diagram A. Diagram B shows what happened to the cell after a few hours.



Key	A CONTRACTOR OF THE PROPERTY O
4	Substance Y
0	Substance Z

(a)	Does the cell in the diagrams above belong to an animal or plant? Give a	
	reason for your answer.	

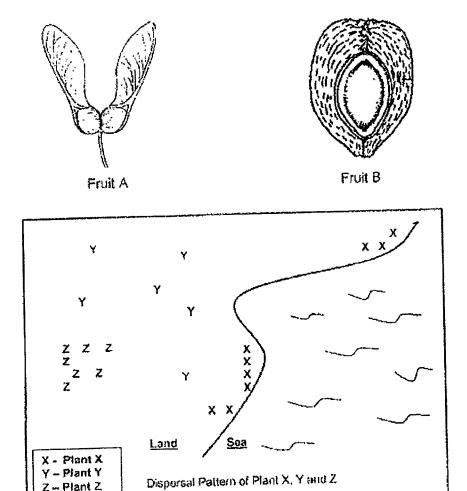
(b) Name part W. Based on the experiment, what can you conclude about part W?

(2)

(Go on to the next page)

[1]

The diagram below shows two fruits A and B and the dispersal pattern of Plant X, Y 6 and Z.



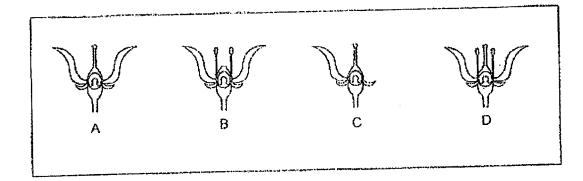
Based on the above diagram, how is Plant Z likely to be dispersed? Explain your [1] answer.

Z - Plant Z

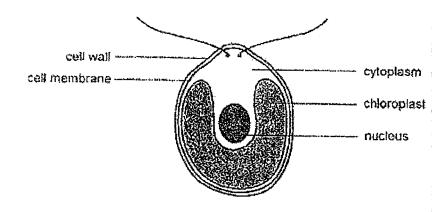
(b) Explain how the structure of Fruit A enables it to be dispersed. [1]

(c)	Fruit B has a fibrous husk. Which plant X, Y or Z is likely to produce Fruit B?			
	Explain your answer.	[2]		
		:		

7 The diagram below shows four flowers, A, B, C and D.



8 The diagram below shows a single-celled organism which lives in pond water.



(a)	Is this single-celled organism a plant or an animal?	[1]
<i>I</i> LX		
(b)	Give a reason for your answer in part (a) above.	[1]

End of Paper

Ai Tong School Primary 5 2022 Science Weighted Assessment Correction Template

Section A

1. 2. 3. 4.	3 2		
Sectio	on B		
5 (a)	Animal cell. It does not have a cell	wall	*
5 (b)	Part W is the cell membrane	!	
	The cell membrane allows Substance 2 to go		in and
	out of the cell but not Substance Y	and	
	*When describing the function of cell membrane, do not use to pass through (does not imply two way movement) - Must have the idea of <u>control</u> and movement of <u>certain</u> of the cell		
6 (a)	Plant Z is dispersed by explosive actian / sp	litting action	n.
	Most of the plants are dispersed near to pa	rent	plant
6 (b)	Fruit A has	∋ dispersed	by the
	*When answering questions pertaining to seed dispersal, mal the diagram.	(e referenc	e to data from
ნ (c)	Choice: Plant X		
	Data: They grow near thesea / water and		
	Explanation: the fibrous husks helps the fruits to bedispe	rsal by	water

7 (a)	Flowers A, C and D
7 (b)	Flowers A, C and D still have their stigma which means they can still be
	pollinated by pollen grains and fertilisation
	can still take place in theOVary
	*Recall the female parts of a flower. Which are the parts important for its development into a fruit? What the main processes needed for a flower to develop into a fruit?
8 (a)	It is a <u>plant</u> .
8 (b)	The single-cell organism has cell wall and all
	plants have cell wall

Ai Tong School Primary 5 Science Practical Assessment 2022

15

	Parent's Signature:	
Nam	e: (') Class: P5 Date:	
Dura	ation: 40 minutes	
<u>Act</u>	ivity 1 (7 marks)	
•	erials given: beaker containing water and ice cubes a thermometer	
	Caution: The thermometer is fragile, Please handle with care.	
Inst	ructions:	
1.	Measure the temperature of water and ice cubes in the beaker. Record the temperature below.	[1]
	Temperature of water and ice cubes in the beaker:	
2.	Name the process happening to the ice cubes in the beaker.	[1]
3.	Observe the water droplets that were formed on the outer surface of the beaker. Explain how the water droplets were formed.	[2]

Based on your observation of the beaker containing ice cubes and water, time of the correct column to indicate if the object stated is gaining heat or losing heat. Object Gaining heat Losing heat
Ubject Saning fleat Looning
ice cubes in the beaker
Air surrounding the beaker

Activity 2 (8 marks)

Materials given:

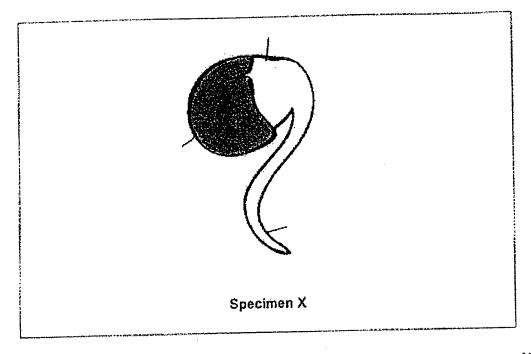
- · cross-section of specimen A
- · cross-section of specimen B
- specimen X
- magnifying glass

1	n	sŧ	۲ı	ıc	ti	o	n	S	•

	Examine the cross-sections of specimens A and B.
	Specimens A and B are fruits. Based on your observation, give a reason why.
•	
1	Name the method of seed dispersal for specimens A and B.
*	Specimen A:
	Specimen B:
5	State one reason for your answer for specimen B in question (3).
	State one advantage of the method used by specimen A to disperse its seeds
	s specimen A capable of carrying out photosynthesis? Explain your answer.

7. Examine specimen X. Label the seed coat, seed leaf and root in the diagram below.

[1]



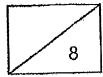
8.	Tick	(✓)	the	correct	box.
----	------	-------------	-----	---------	------

[1]

a flowering plan

a non-flowering	plan
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END OF PAPER



Primary 5 Science Practical Assessment 2022 Correction Template

Activity 1				2. 4.6 de agrico de altre de altre de agrico d
Question	Answers	·	دري جينيه ۾ در 1900ج بير گيويونيو سوينده است	Remarks
1	0°C			Do note that all measurements must include units. When ice is melting, the mixture of ice and water is at 0°C. Heat energy from the surroundings is used to melt the ice instead of increasing temperature of the
2	The ice cubes are	melting	· · · · · · · · · · · · · · · · · · ·	mixture.
3	Warmer Water vapour from the comes into contact with the	- Heat source must be identified correctly. - Temperature difference between the surroundings and the condensing surface must be stated. - Heat transfer (heat gain/heat loss) must be stated. - Change of state and its process must also be stated. Use mnemonic to help you remember this answering technique.		
4	From solid state.	e to <u>liq</u>	uid	Melting is process of heat gain whereby ice changes from the solid state to the liquid state.
5	Object Ice cubes in beaker A Air surrounding beaker A	Gaining heat	Losing heat	lce cubes in the beaker gain heat from the surrounding air. Air in the surroundings loses heat to the ice cubes in the beaker.

	The state of the s	A STATE OF S
6	room temperature (between 20 °C to 34 °C)	After three hours, there will be no heat transfer between the mixture in the beaker and the surroundings, so the mixture will have reached room temperature.
Activity	12	og ser (,) skallinke til 1
2	Data: Specimen A and B have seeds Explain: and only fruits have seeds.	Use C (given) – D – E in your explanation.
3	Specimen A: splitting / explosive action Specimen B: animal	
4	Specimen B is a fleshly fruit.	Animals will be altracted to feed on fleshy fruits, thereby either throwing away the seeds or swallowing the seeds and eventually passing them out, thus dispersing the seeds away from the parent plant.
5	Does not depend onexternalagentssuch as wind, water and animals for seed dispersal.	
6	Choice: Yes Data: Specimen A isgreen Explain: indicating that it contains chlorophyllthat traps light to make food for the plant.	Use C - D - E in your explanation

7	seed coal	
enan managanan managan na dikiki di	✓ a flowering plant	
8.	a non-flowering plant	
	fungi	