

RAFFLES GIRLS' PRIMARY SCHOOL

WEIGHTED ASSESSMENT (2)

2021

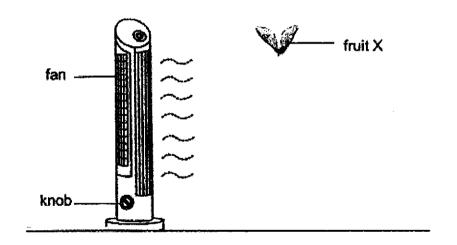
Your Score	15
Parent's signature	Maria Mandada mara L.V.Z.

The state of the s	SCIENCE	Duration: 30 min
Name :	Index No.: Class: P	'5 Date:

For questions 1 to 3, write your answers clearly in the spaces provided.

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

Sam set up an experiment to find out if the speed of wind affects the distance moved by fruit
X as shown below. The speed of wind of the fan can be adjusted from the slowest to the
fastest by turning the knob from 1 to 5.



Sam recorded the results in the table below.

Knob of the fan	Distance moved by fruit X (cm)	
1	50	
2	103	
3	147	
4	188	
5	210	

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(a) The following are the variables listed by Sam.
 Identify the correct independent variable, dependent variable and constant variables in Sam's experiment by putting a tick (√) in the correct boxes in the table below. [2]

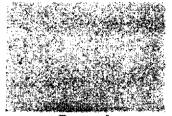
Variables	Independent Variable	Dependent Variable	Constant Variables
Speed of wind		` :	•
Distance moved by fruit X			
Location of experiment			
Time taken for fruit X to reach the ground			
Height at which the fruit X was released			

(b) Based on his results above, state how the wind speed affected the distance mo X.	ved by fruit [1]
(c) Explain why fruit X needs to be dispersed far away from the parent plant.	[1]
(d) Name the physical characteristic of fruit X which helps in its dispersal.	[1]

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Score

2. David has two identical pieces of paper, A and B, as shown below.



Paper A

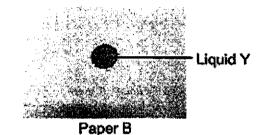


Paper B

He placed one drop of liquid X and Liquid Y on papers A and B respectively as shown in the diagram below. (refer to powerpoint slide shown on the screen)



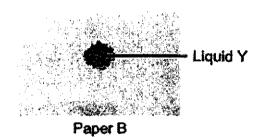
Paper A



After three minutes, he made the following observations as shown below. (refer to powerpoint slide shown on the screen)



Paper A



(a) Based on David's observation above, which liquid, X or Y, disappeared first?

Liquid

(b) Explain your answer in (a).

[2]

Score 3

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David carried out another experiment to find out the melting and boiling points of liquids X and Y. He recorded the results in the table below.

Liquids	Melting Point (°C)	Boiling Point (°C)
	- 114	78.5
	- 95	102

(c) Based on David's observation of liquids X and Y, complete the result table above by writing X and Y in the correct box.	[1]
(d) Give a reason for your answer in (c).	[1]

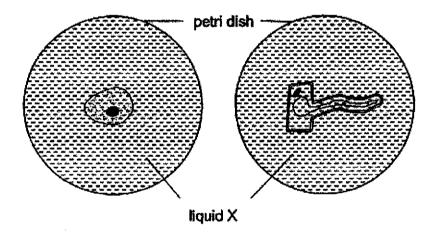
Score	2
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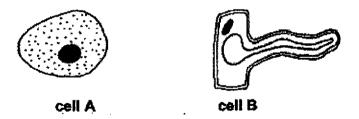
3. The diagram below shows two cells, A and B, observed under a microscope.



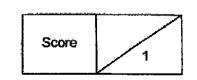
Next, cells A and B were placed on two identical petri dishes filled with the same amount of liquid X.



The diagram below shows the change in cells A and B observed under the microscope half an hour later.



(a) Based on the diagrams above, what could be observed of cells A and B after half an hour?



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[2]

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(b) Cells A and B were left in the same petri dish in liquid X for a few more he One of the cells burst, Identify the cell and explain why it burst.	ours.
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The diagram below shows cells C viewed under a microscope. (refer to powerpoint slide shown on the screen)



(c) (i) Name the group of organism that has cell C.

[1]

(ii) Which part of the organism identified in (c)(i) can cells C be found? Explain your answer clearly.

END OF PAPER

Score 4

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SCHOOL: RAFFLES GIRLS' PRIMARY SCHOOL

LEVEL : PRIMARY 5 SUBJECT : SCIENCE

TERM: 2021 WEIGHTED ASSESSMENT (2)

Q1)	a)				
	Variables	independe	ent Dependent	Constant	
!		Variable	Variable	Variables	
	Speed of wind	V			
	Distance		1		
	moved by fruit				
	X				
	Location of			1	
	experiment				
	Time taken for				
	fruit X to reach				
	the ground				
	Height at which			1	
	the fruit X was				
	released				
	b) As the wind speed increases, the distance moved by fruit X				
	increases.			£	
• •	c) To prevent overcrowding and competition for water, sunlight,				
	space and nutrients between fruit X and its parent plant. d) Wing-like structures.				
Q2)	a) Liquid X	structures.			
Q2)	b) Liquid X gained heat from the surrounding and evaporated				
	faster				
	c)				
	Liquids		Melting Point (°C)	Boiling Point (°C)	
	Liquius		moung ronk (o)	Donning Former (0)	

	X	-114	78.5		
	Υ	-95	102		
	, ,	porated faster than liquid X.	uid Y. Hence liquid X has a		
Q3)	a) They have in	creased in size			
	 b) Cell A burst. It does not have a cell wall. The cell wall pro supports the cell. 				
	c) i) Plant				
	ii) It is most likely taken from a leaf. It has chloroplast which				
	contain chlo	prophyll for leaves to tr	ap light for photosynthesis.		