

RAFFLES GIRLS' PRIMARY SCHOOL

WEIGHTED ASSESSMENT (2)

2021

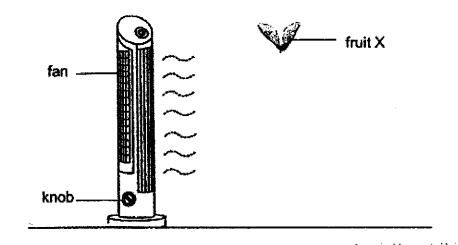
Your Score	15
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Name	*	Index No.:	Class: P5	Date:
	and the second s			
	9	CIENCE		Duration: 30 min

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		· <u> </u>	•
Distance moved by fruit X		A San Wil William	
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 m X.	oved 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]

Score 5

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

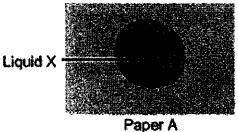


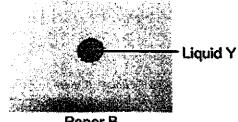
Paper A



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)



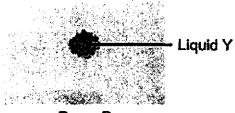


Paper B

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



Paper A



Paper B

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

(b) Explain your answer in (a).

[2]

Score

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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.

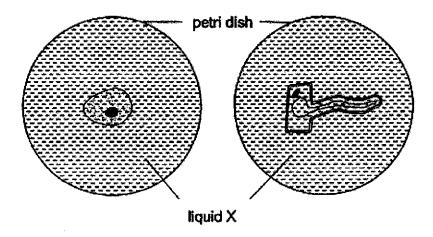
Liquids	Melting Point (°C)	Boiling Point (°C)
	- 114	78.5
	- 95	102

(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]

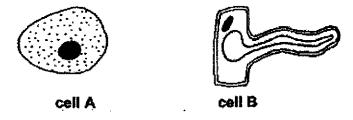
3. The diagram below shows two cells, A and B, observed under a microscope.



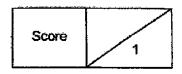
Next, cells A and B were placed on two identical petri dishes filled with the same amount of liquid X.



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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(b)	Cells A and B were left in the same petri dish in liquid X for a few more hours. One of the cells burst, identify the cell and explain why it burst.	[2]
•		" <u>-</u> 11

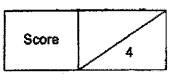
The diagram below shows cells C viewed under a microscope. (refer to powerpoint slide shown on the screen)



(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. [1]

END OF PAPER



2021 P5 Science WA2

SCHOOL: RAFFLES GIRLS' PRIMARY SCHOOL

LEVEL : PRIMARY 5 SUBJECT : SCIENCE

TERM: 2021 WEIGHTED ASSESSMENT (2)

Q1)	a)					
	Variables	Independent	t Dependent	Constant		
:		Variable	Variable	Variables		
	Speed of wind	1				
	Distance		1			
	moved by fruit					
	x					
	Location of			V		
	experiment					
	Time taken for					
	fruit X to reach					
	the ground					
	Height at which			7		
	the fruit X was					
	released					
	b) As the win	d speed incre	ases, the distance	moved by fruit X		
	increases.					
	c) To prevent	tovercrowdin	g and competition	for water, sunlight,		
	space and nutrients between fruit X and its parent plant.					
	d) Wing-like	structures.				
Q2)	a) Liquid X					
	b) Liquid X g	ained heat fro	m the surrounding	and evaporated		
	faster					
	c)					
	Liquids	N.	leIting Point (°C)	Boiling Point (°C)		

		X	-114	78.5	
		Y	-95	102	
	d)	•	point 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 protects /				
		supports the	cell.		
	c)	i) Plant			
		ii) It is most l	ikely taken from a leat	f. It has chloroplast which	
	i			ap light for photosynthesis.	