MAHA BODHI SCHOOL
2022 TERM 2 REVISION
PRIMARY FIVE SCIENCE

Name : _____( ) Date : ____ _____

Class : Primary 5 _____

SECTION A : [8 x 2 marks = 16 marks]
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), **write your answer in the bracket.**

1. The diagram below shows how water changes after processes G and H have taken place.



Which of the following correctly represents G and H?

	G	H
(1)	freezing	evaporation
(2)	evaporation	freezing
(3)	boiling	condensation
(4)	condensation	boiling

( )

2. Which of the following statement(s) below explain(s) why we can see the moon?

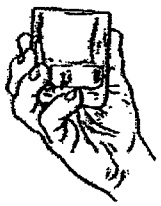
A. It gives off light.
B. It reflects the light from the Sun to our eyes.
C. It reflects the light from the Earth to our eyes.

(1) A only
(2) B only
(3) C only
(4) A, B and C

( )

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3. Ali held onto a glass of cold water. Shortly, his hand felt cold.



Which of the following best explains why Ali's hand felt cold?

(1) Heat flowed from the glass to his hand.

(2) Heat flowed from his hand to the glass.

(3) Coldness flowed from the glass to his hand.

(4) Coldness flowed from his hand to the glass.

( )

4. Beatrice prepared four set-ups of liquids in a room. The experimental conditions are shown in the table below.

Set-up	Type of liquid	Temperature of liquid (°C)	Volume of liquid (cm^3)
J	X	40	50
K	X	80	50
L	Y	40	50
M	Y	40	100

She wanted to confirm if rate of evaporation is affected by the type of liquid.

Which pair of set-ups should Beatrice compare for her investigation?

(1) J and L

(2) J and M

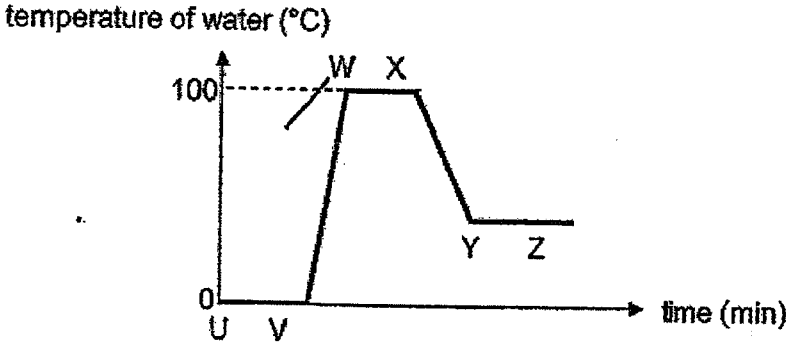
(3) K and L

(4) K and M

( )

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5. A container of frozen water was heated till boiling occurred and left to cool after. The graph below shows how the temperature of water changed over time.



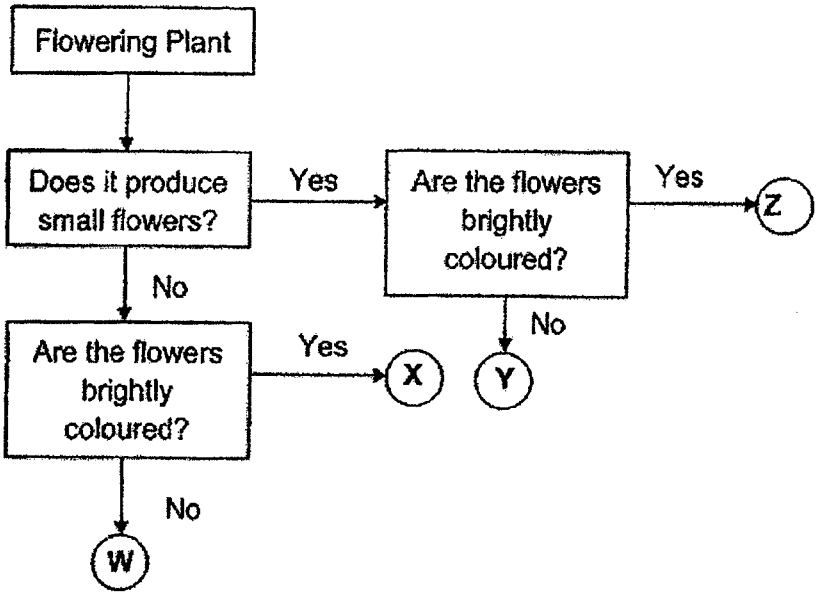
Which of the following statement(s) is/are correct?

A. No heat was gained by the water during UV.
B. There was only one state of water present during VW.
C. The temperature during WX was the boiling point of water.
D. The temperature during YZ was the freezing point of water.

(1) C only
(2) A and C only
(3) B and C only
(4) B and D only ( )

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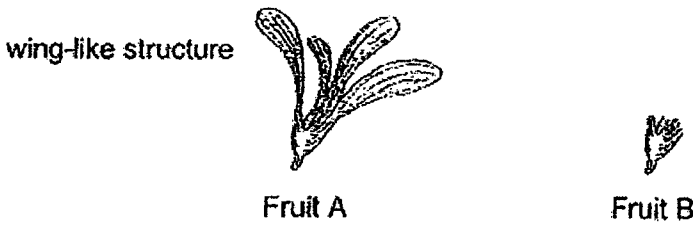
6. The flowchart below shows the characteristics of some flowering plants in Sam's garden.



Sam observed that some insects were attracted to small and brightly coloured flowers. Which group of flowers were the insects attracted to?

(1) W
(2) X
(3) Y
(4) Z ( )

7. Hendrick carried out an experiment using two fruits, A and B. He released each fruit, one at a time, from a height of 10m from the ground. He measured the time taken for each fruit to reach the ground.



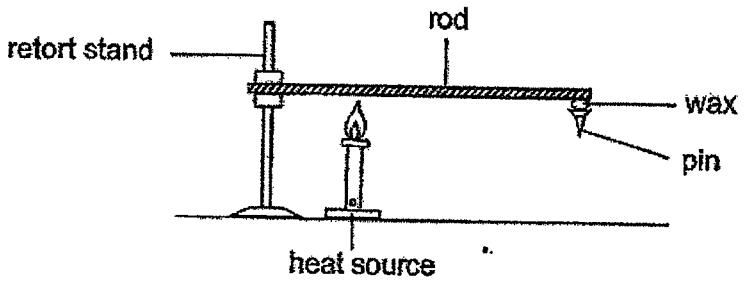
Which set of readings is most likely to be correct?

	Time taken for fruit A (s)	Time taken for fruit B (s)
(1)	2.8	2.9
(2)	5.2	5.2
(3)	5.1	3.1
(4)	5.6	6.5

( )

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8. Caili conducted an experiment as shown below to find out which material was the worst conductor of heat.



She repeated the experiment with rods made of different materials.

What should Caili observe so that she could make a correct conclusion?

(1) longest time taken for the pin to drop

(2) shortest time to heat the rod to a fixed length

(3) longest distance between the rod and the ground

(4) shortest distance between the pin and the heat source

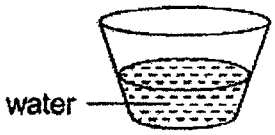
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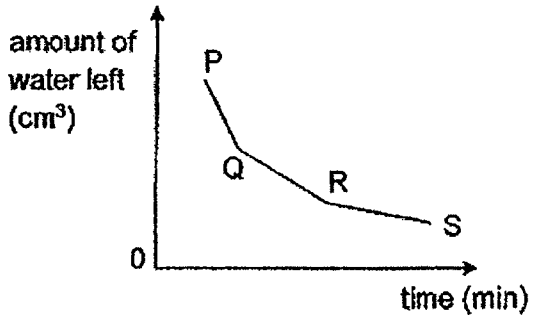
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SECTION B : [14 marks]
For questions 9 to 12, write your answers in this booklet.

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

9. Eugene conducted an experiment to find out how exposed surface area of water affected rate of evaporation. He poured some water into a container and recorded the amount of water left in the container over a period of time. The graph below shows his results.





(a) Based on the result, what was the relationship between time duration and the amount of water left? [1]

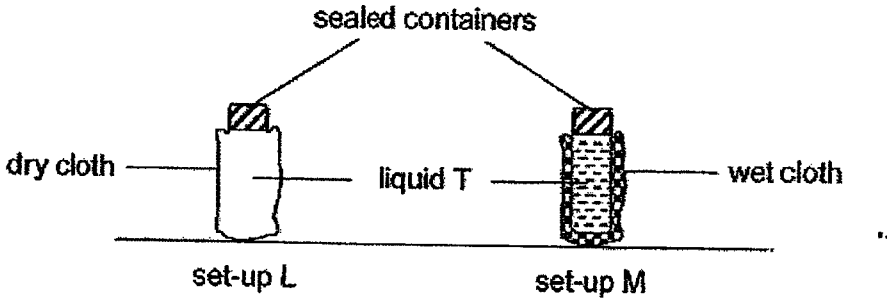
(b) State how the exposed surface area of water changed over time. [1]

(c) Explain why more water was lost during period PQ than during period RS. [1]

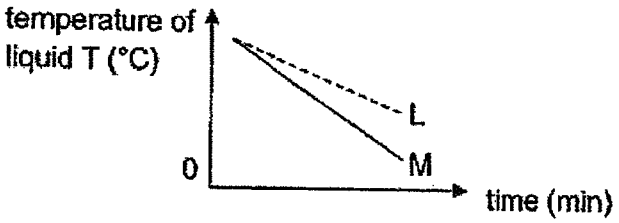
Marks : / 3

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10. (a) Fandi conducted an experiment to find how temperature of liquid T would be affected by a wet cloth. His set-ups are shown in the diagram below.



The graph below shows how the temperature of liquid T in set-ups L and M change over time.



(i) Explain how the wet cloth became dry after some time. [1]

_____

_____

(ii) Based on the results, what was the effect of the wet cloth, as compared to the dry cloth, on the temperature of liquid T? [1]

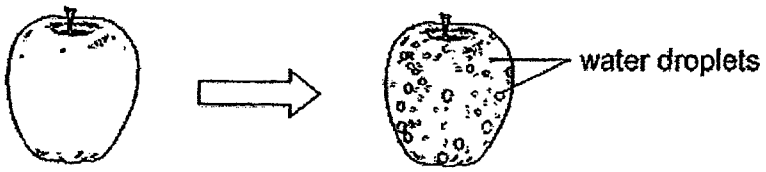
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Marks : /2

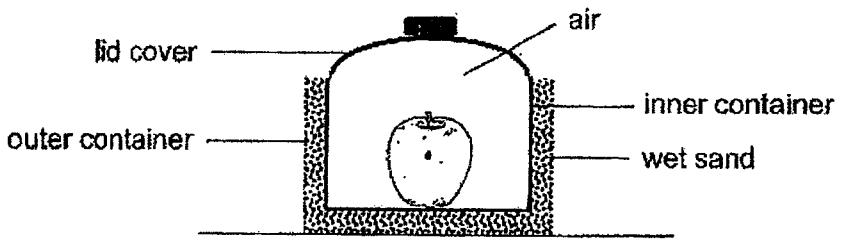
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(b) Fandi left a cold apple on his table. After some time, he observed water droplets on the apple.



Explain how water droplets were formed on the apple. [1]

(c) The diagram below shows a model that was built by Fandi to keep his apple cool.



The air inside the inner container was kept cool by the wet sand.

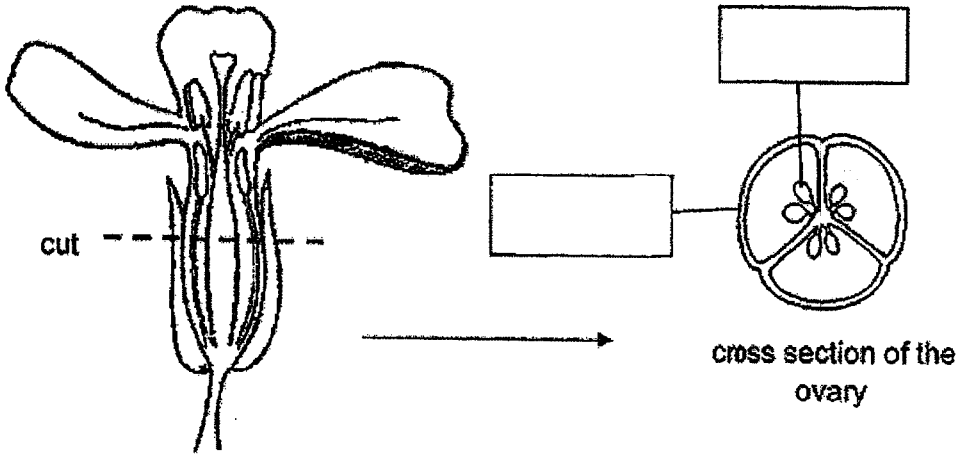
(i) Explain why no water droplets were formed on the surface of the cold apple after some time. [1]

(ii) The outer container had many tiny holes. Fandi did not observe any water or sand flowing out from the outer container.
Give a reason how the wet sand dried faster when the outer container had more tiny holes. [1]

Marks : / 3

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11. Jess plucks a flower from her garden and cuts across the middle of its ovary. Its cross section is shown below.



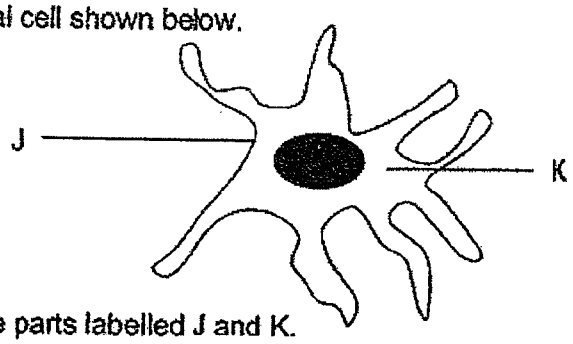
(a) Label the ovary and the ovule in the boxes above. [1]

(b) What will the ovary and ovule develop into when the flower is pollinated and fertilised? [2]

Ovary : _____

Ovule : _____

12. Study the animal cell shown below.



(a) Name the parts labelled J and K. [2]

J : _____ K : _____

(b) Based on the diagram, explain why the cell shown above is an animal cell. [1]

_____

_____

Marks : / 3

~ END OF PAPER ~

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LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2022 TERM 2

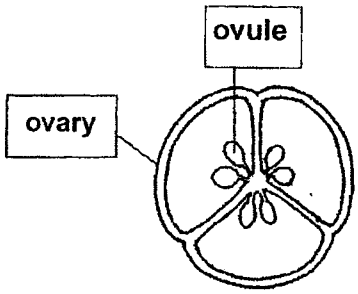
SECTION A

Q 1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
3	2	2	1	1	4	3	1

SECTION B

Q9)	a) The longer the time, the lesser the water in the container. b) When the water evaporates, the water level goes down and the exposed surface area decreases as the side of the container is in a sloping position. c) The exposed surface area at PQ is longer than RS. The water had a faster rate of evaporation at PQ.
Q10)	a) i) Water in the wet cloth gained heat from surrounding and evaporated into water vapour. ii) The wet cloth helped to decrease the temperature of liquid T faster. b) Water vapour from the surroundings came into contact with the apple, lost heat and condensed into water droplets. c) i) Water vapour from the surroundings lose heat to the apple and condense. ii) The exposed surface was larger when there were holes as water could also evaporate from the sides and the top.

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Q11)	a)  b) Ovary: fruit Ovule: seeds
Q12)	a) J: cell membrane K: cytoplasm b) The cell does not have a cell wall which all plant cells have.

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Nan Hua Primary School
Primary 5 Science
Term 2 Weighted Assessment 2022

Marks	
Section A:	/10
Section B:	/10
Total:	/20

Name: _____( )

Class: Primary 5S_____

Date: _____

Duration: 30 minutes

_____
Parent's Signature

Answer all questions.

Section A: (5 x 2 marks = 10 marks)
For each question from 1 to 5, 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 bracket provided.

1 Which of the following gases are present in exhaled (breathed out) air?

A Oxygen
B Nitrogen
C Water vapour
D Carbon dioxide

(1) D only
(2) C and D only
(3) B, C and D only
(4) A, B, C and D

( )

2 Which of the following identifies the part or organ through which air leaves a human, fish and plant?

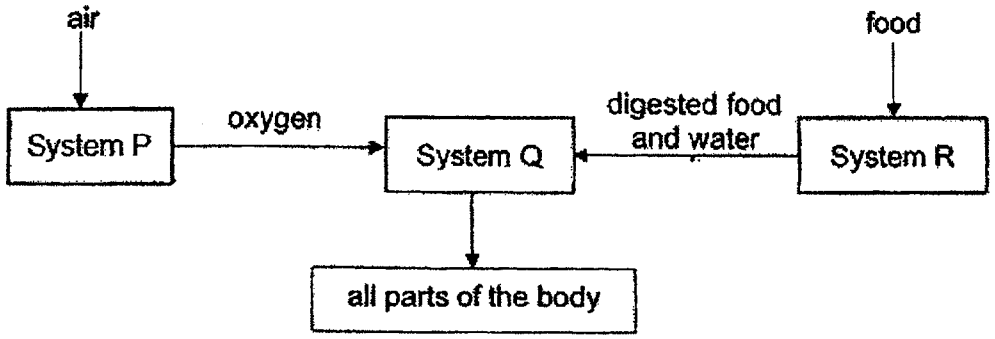
	Human	Fish	Plant
(1)	mouth	mouth	tiny opening on leaves
(2)	mouth	gills	root hairs
(3)	nose	gills	tiny opening on leaves
(4)	nose	mouth	root hairs

( )

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3 Study the three systems P, Q and R in a human body below.



Which of the following statements about the three human body systems are correct?

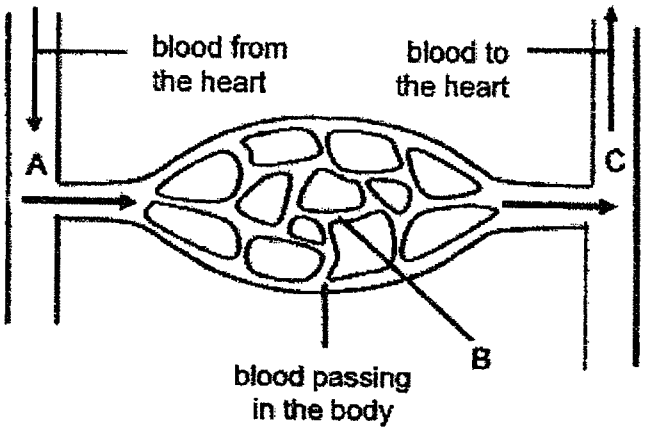
A System R breaks down food into simpler substances.
B System P pumps blood rich in oxygen to System Q and all parts of the body.
C System Q transports oxygen, digested food and water to all parts of the body.
D Systems P, Q and R do not depend on one another for the human body to stay healthy.

(1) A and B only
(2) A and C only
(3) B, C and D only
(4) All of the above

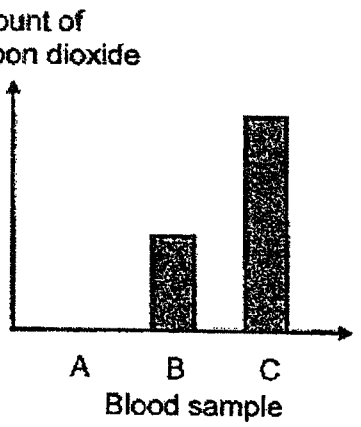
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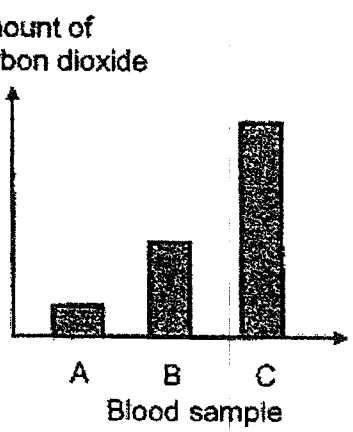
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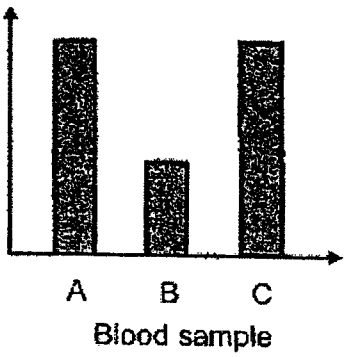
4 The diagram below shows the flow of blood in the human circulatory system.

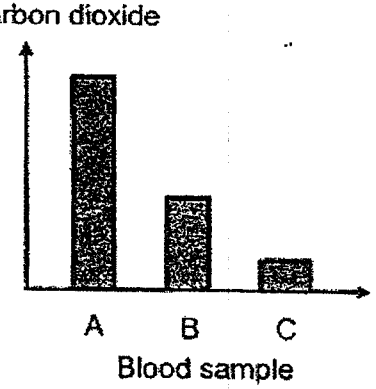


The same amount of blood samples was taken from A, B and C.
Which chart shows the correct comparison of the amount of carbon dioxide in the blood samples?

(1)


(2)


(3)


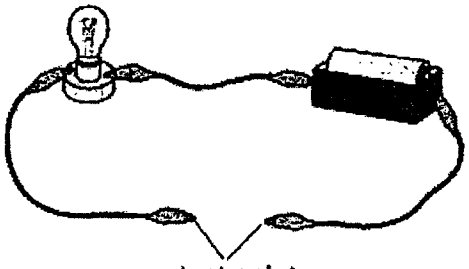
(4)


( )

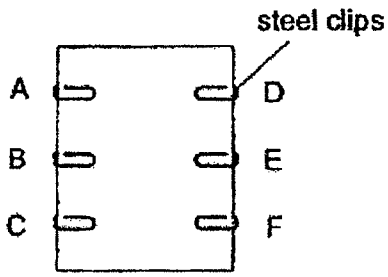
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5 The set-up below shows a circuit tester and a piece of cardboard with six steel clips. The steel clips are connected to some copper wires at the back of the cardboard.



Circuit tester



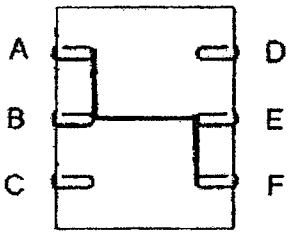
Front view of cardboard

The table below shows the results when the circuit tester is connected to the following pairs of steel clips.

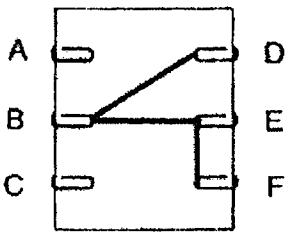
Steel clips	Does the bulb light up?
A and D	No
B and E	Yes
B and F	Yes
C and F	No
D and F	Yes

Which of the following is **not** a possible connection of copper wires to the steel clips at the back of the cardboard?

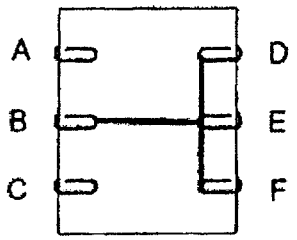
(1)



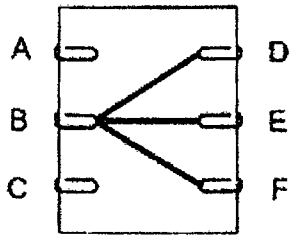
(2)



(3)



(4)



( )

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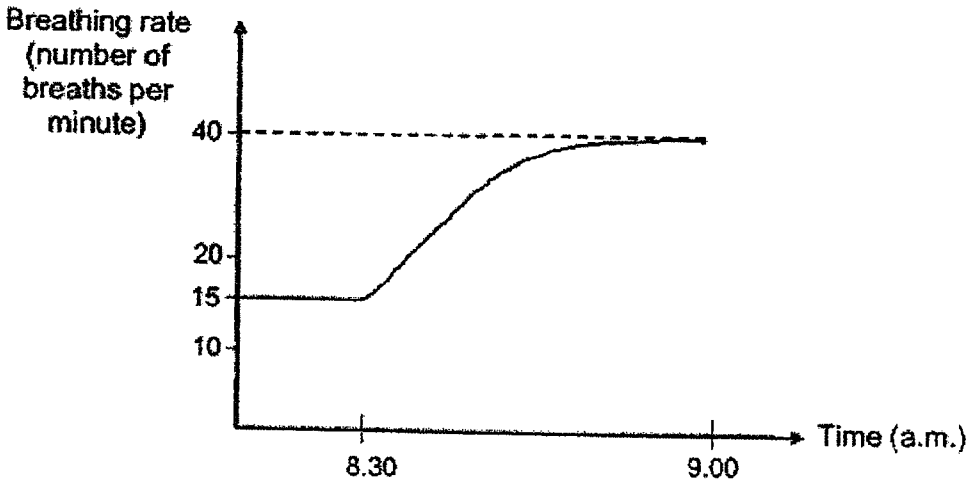
Total marks for section A	/10

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Section B: Structured questions (10m)

For questions 6 to 8, write your answers in the space provided. The number of marks available is shown in brackets [ ] at the end of each question or part question.

6 Timothy went jogging from 8.30 a.m. to 9.00 a.m. He wore a fitness tracker to monitor his breathing rate before and during his jog. The graph below shows his breathing rate.



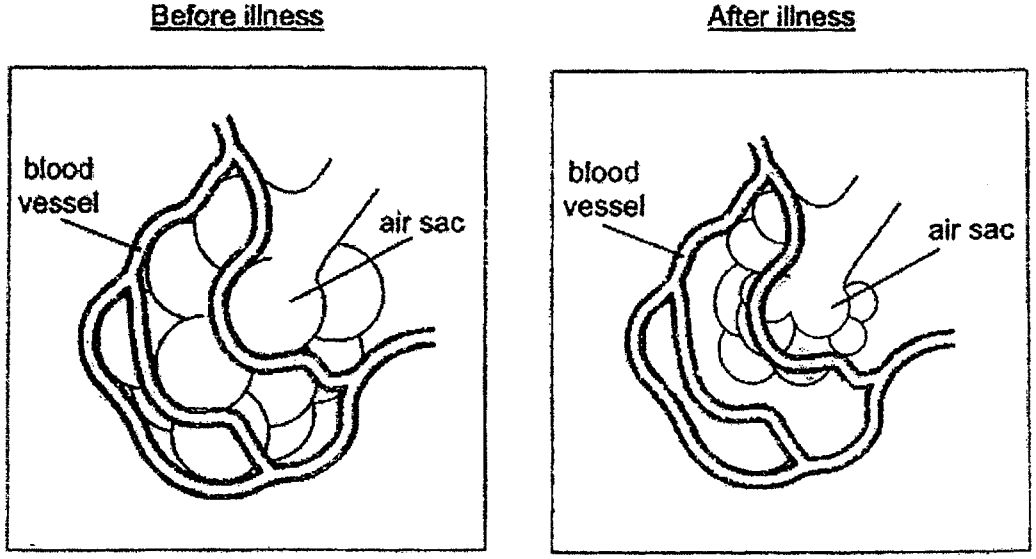
(a) Explain the change in Timothy's breathing rate before and during his exercise. [1]

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Air sacs are found at the end of the tiny branches of air tubes in the lungs and surrounded by blood vessels.

Timothy fell ill with a lung disease a month later. The disease caused some of his air sacs to shrink as shown in the diagrams below.



(b) Based on the diagrams, explain how the damaged air sacs led to a decrease in oxygen level in his blood. [2]

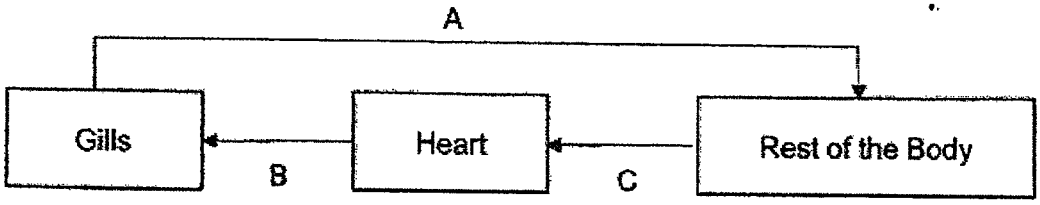
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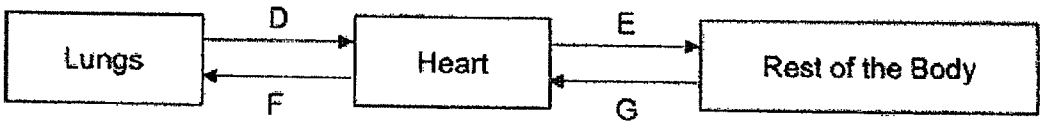
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7 The diagrams below show how gases are transported in the circulatory systems of a fish and a human. A, B, C, D, E, F and G are blood vessels in the different parts of the bodies. The arrows represent the movement of blood.

Circulatory System of a Fish



Circulatory System of a Human



(a) Name the blood vessels, A, B, C, D, E, F or G, containing the most amount of oxygen in the fish and in the human. [1]

(i) In the fish: _____

(ii) In the human: _____

(b) Using the diagrams above, describe clearly how carbon dioxide produced by the cells of a human is removed from his body. [2]

_____

_____

_____

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(c) Write 'True' or 'False' beside each statement below. [1]

Statement	True or False
(i) Blood rich in oxygen that leaves the gills goes straight to all parts of the fish's body.	
(ii) Plants, like human, have tubes in their circulatory system to transport digested food to all its cells.	

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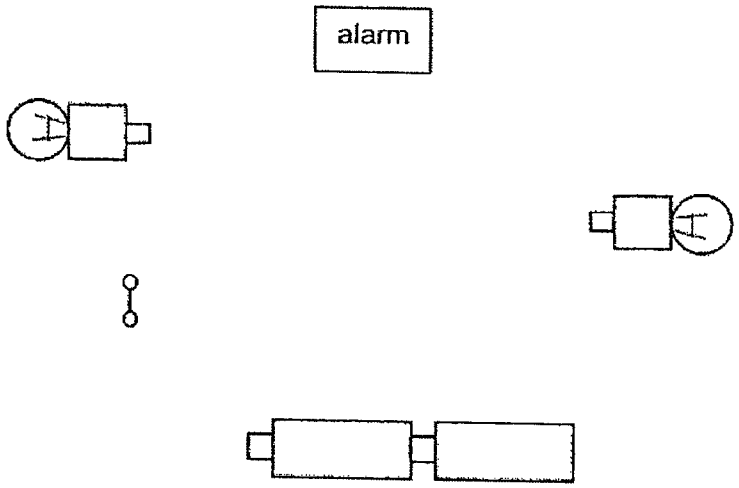
Score	/4

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8 The diagram below shows a toy police car. When it is switched on the bulbs light up and the alarm sounds off at the same time.



(a) Complete the circuit diagram below to show the arrangement of the wires in the toy car when the bulbs are lit and alarm sounds off. [2]



(b) Will the alarm still produce the sound when one of the bulbs fuses? [1]
Explain your answer.

_____

_____

~ End of Paper ~

Score	
	3

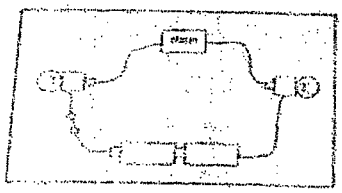
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SCHOOL : NAN HUA PRIMARY SCHOOL
LEVEL : PRIMARY 5
SUBJECT : SCIENCE
TERM : 2022 WA2

Q 1	Q2	Q3	Q4	Q5
4	3	2	2	1

Q6)	a) During exercise, Timothy's breathing rate increased / became faster to take in more oxygen (and remove more carbon dioxide) for a faster rate of respiration / to release more energy. b) The shrunken / damaged air sacs reduced the exposed surface area of the oxygen in contact with the blood in the blood vessels. Hence less oxygen can enter / pass / be absorbed into the blood. OR As air sacs shrunk, the lungs' capacity / volume decreased. Less oxygen is present in the lungs. Hence less oxygen can enter / pass / be absorbed into the blood.
Q7)	a) i) A ii) D b) Carbon dioxide leaves the cells and enters into the blood / bloodstream. Carbon dioxide in the blood is then transported to the heart and pumped to the lungs. At the lungs, carbon dioxide is exhaled / removed from the body. c) i) True ii) False
Q8)	a)  b) The alarm will not sound. When a bulb fuses, there is an open circuit / a gap in the circuit. Electric current cannot flow through the alarm to sound it.

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