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Nan Hua Primary School Primary 5 Science Term 2 Weighted Assessment 2024

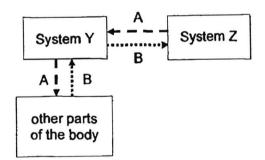
Duration: 30 minutes			Parent's Si	gnature
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Class: Primary 5S			Total:	,20
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			Section B:	/10

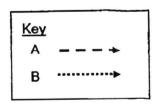
Answer all questions.

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 brackets provided.

1 The diagram below shows how substances A and B are transported in the human body.





Marks

/10

Section A:

What are systems Y and Z and substances A and B?

	System Y	System Z	Substance A	Substance B
(1)	respiratory	circulatory	oxygen	carbon dioxide
(2)	respiratory	circulatory	carbon dioxide	oxygen
(3)	circulatory	respiratory	oxygen	carbon dioxide,
(4)	circulatory	respiratory	carbon dloxide	oxygen

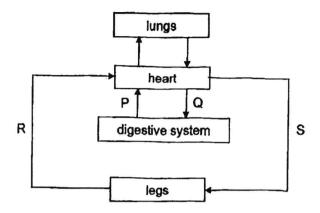
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This booklet consists of 7 printed pages.

2 The diagram below shows the flow of blood through blood vessels P, Q, R and S in the human circulatory system.



Which blood vessels transport blood richer in oxygen?

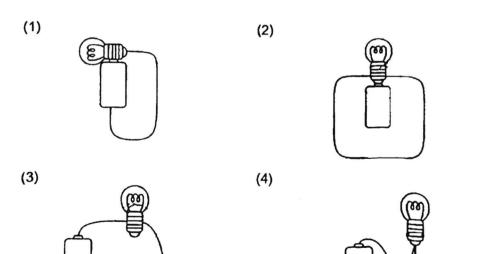
- (1) P and Q
- (2) P and R
- (3) Q and S
- (4) R and S

The diagram below shows four circuits. In which circuit will the bulb light up?

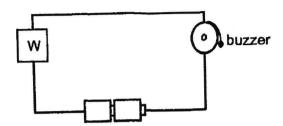
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4 Sally set up the circuit as shown below.



Which of the following object(s) can be placed at position W to allow the buzzer to ring?

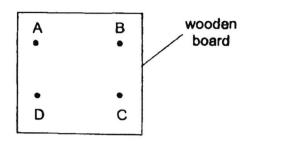
- A an eraser
- B an aluminium foil
- C a piece of paper
- D a steel paper clip
- (1) A and C only
- (2) A and D only
- (3) B and C only
- (4) B and D only

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Four metal pins, A, B, C and D, were fixed onto a wooden board as shown in Figure 1 below. Figure 2 shows a battery and a bulb connected to two wires X and Y.



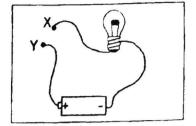


Figure 1

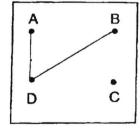
Figure 2

John connected some but not all pins on the wooden board in Figure 1 with wires. He then connected X and Y across different pairs of pins in turn. He recorded his results in the table below.

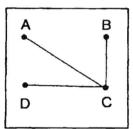
Pin connected to X	Pin connected to Y	Did the bulb light up?
Α	В	yes
В	С	yes
С	D	no
D	Α	no

Which of the following correctly shows the connections made by John?

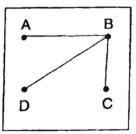
(1)



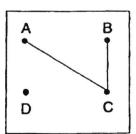
(2)



(3)



(4)



(

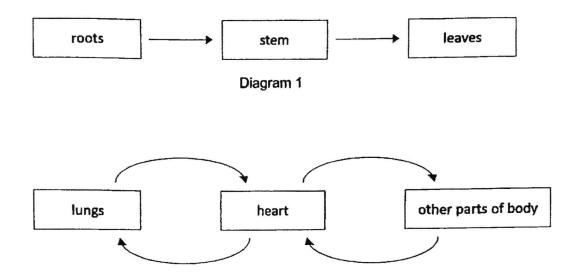
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Total score	
for section A	10

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.

Study the two diagrams below. Diagram 1 shows the movement of water in a plant and diagram 2 shows the direction of blood flow in some parts of the human body.



(a) State one difference between the direction of movement of water in plants and the direction of movement of blood in the human body.

[1]

Other than the heart, name the other two parts of the human circulatory system.

[1]

Diagram 2

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Score

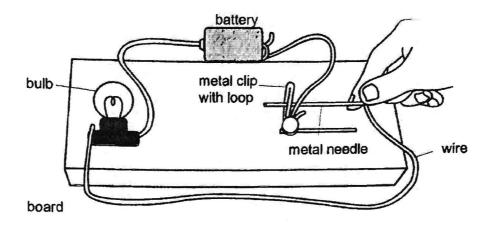
7 Alan carried out an experiment by measuring his heart rate when he is taking part in different activities. He repeated his experiment two more times and recorded the average results in the table below.

Activity	Heart rate (beats per min)
resting	67
walking	98
running	160

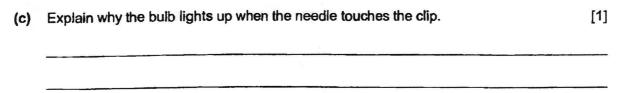
)	Explain, in terms of substances transported, why Alan's heart rate is slower when he i walking instead of running.	is [2]
		_
)	Give a reason why Alan repeated his experiment two more times.	[1]
	What is the relationship between the heart rate of a healthy person and his/her breathing	

Score	
	1 / 4
	4

The setup below shows a game where players try to move a metal needle through a metal clip without touching it. The bulb lights up when the needle touches the clip in the setup. The bulb and the metal clip are fixed to the board.



(a)	Identify the parts of the set-up that functions like a switch.	[1]
(b)	Based on the game setup above, complete the circuit below using only the symboloub, battery, and wires.	ols for the
	switch O——O	



End of Paper Score 4

Nan Hua Primary School Primary 5 Science 2024 Term 2 WA ANSWER KEY

No	
<u>.</u>	
1	3
3	1
4	4
5	4
3	4
6a	The water <u>moves in one direction</u> from the roots up to the leaves in plants but blood circulates around the body <u>in two directions/two loops</u> in the human body.
b	Blood and blood vessels
7a	Less energy is needed so the heart pumps slower to transport blood with less oxygen ,digested food and water to the body [1/2] and to remove less carbon dioxide.
b	To ensure that the results are reliable.
С	When the heart rate increase/decrease, his breathing rate increase/decrease. or When his breathing rate increase/decrease, his heart rate increase/decrease.
8a	metal clip (with loop) and metal needle
В	
С	When the metal needle touches the metal clip, electric current can flow through the circuit and the bulb will light up. Or When the metal needle touches the metal clip, it is a closed circuit and the bulb will light up.

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