## Anglo-Chinese School (Junior)



## BITE-SIZED ASSESSMENT 2 (2022) PRIMARY 5 SCIENCE

Fric	iday 6 May	2022		i :	
Nan	ame:( ) C	Class: 5.(	) Paren	t's Signaturè	
INS	STRUCTIONS TO PUPILS		•		
.1	Do not turn over the pages until you are	told to do so	 )	•	
2	Follow all instructions carefully.				
3	There are 11 questions in this booklet.				
4	Answer ALL questions.				
5	The marks are given in the hondrets ( )	of the and of			_

Question	Possible	Marks
Paper	Marks	Obtained
Total	30	

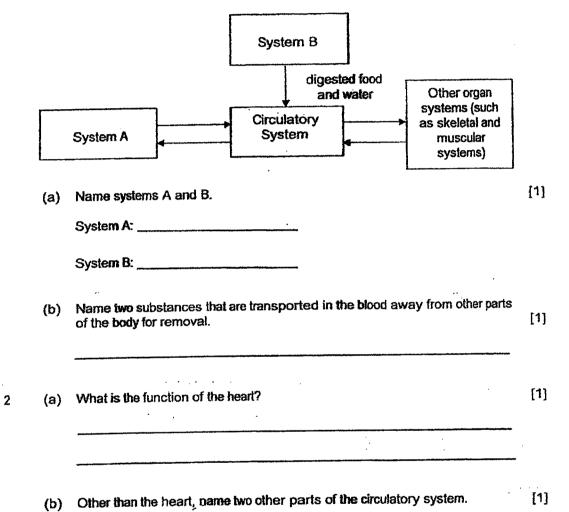
This question paper consists of 11 printed pages (inclusive of cover page).

For questions 1 to 11, write your answers in this booklet.

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

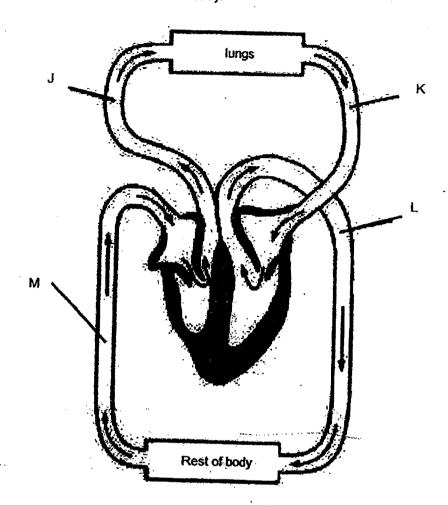
(30 marks)

The diagram shows how substances are transported in the human body.



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SCORE
4

 The diagram shows the flow of blood in the human body. Letters J, K, L and M represent blood at different parts of the human body.



Classify which parts of the human body, J, K, L and M, is the blood rich in exygen and carbon dioxide in the table.

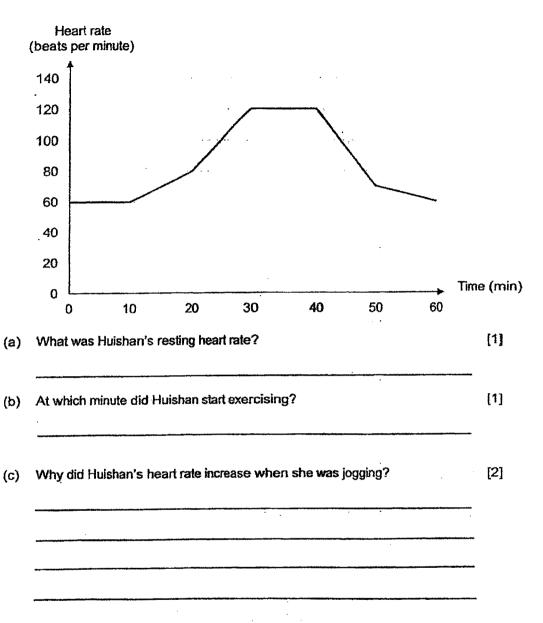
[1]

Blood		
Rich in Oxygen	Rich in Carbon Dioxide	

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SCORE 1

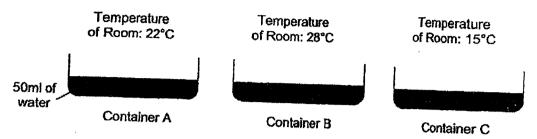
4. The graph shows Huishan's heart rate when she was exercising around the park.



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SCORE
4

5(a) Jordan wanted to find out how the temperature of the surroundings affect the rate of evaporation of water.

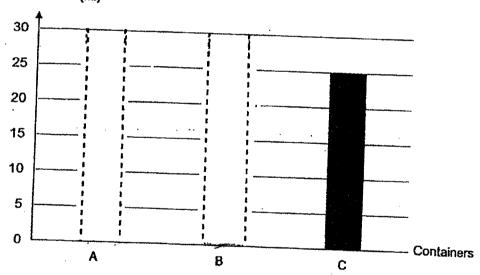
He placed 50 ml of water each into three identical containers, A, B and C, and left them in three different rooms with different temperatures as shown.



He measured the volume of water left in each container after three hours and observe that container C had the greatest volume of water left.

(a)(i) Predict the volumes of water left in containers A and B by drawing the bars in the following graph. [1]

Volume of water left in container (ml)



(a)(ii) Give a reason why container C had the greatest volume of water left after three hours.

[1]

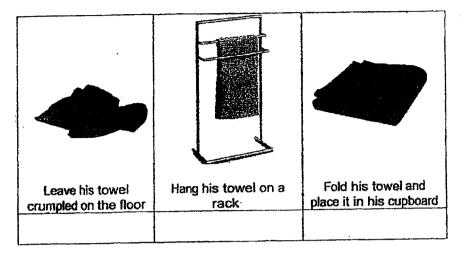
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2

5 (b)(i) After taking a shower, Jordan wanted to dry his wet towel as fast as possible.

Which of the following should he do to ensure that his towel dries the fastest? Place a tick  $(\checkmark)$  in the correct box.

[1]



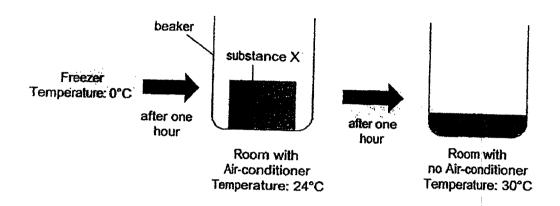
(b)(ii) Suggest another way that would help Jordan dry his towel faster. [1]

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SCORE

2

 Mirabel took out substance X from the freezer and placed it into a beaker in an airconditioned room. After one hour, she switched off the air-conditioner and left the beaker with substance X for another hour.



(a) Why did substance X remain a solid after the first hour?

[1]

(b) Suggest a possible melting point for substance X.

[1]

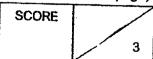
[1]

 Jeremy measured and recorded the resting heart rate of four different people in the table.

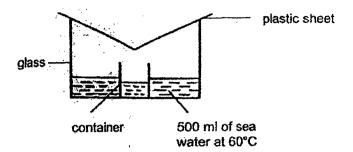
Name	Age (years)	Resting Heart Rate (beats per minute)
Amirah	5	100
Bala	10	85
Charlene	25	60
Daniel	60	75

What was the aim of Jeremy's experiment?

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8. Hassan wanted to collect water from sea water. He sets up an experiment as shown using plastic sheets of different temperatures.



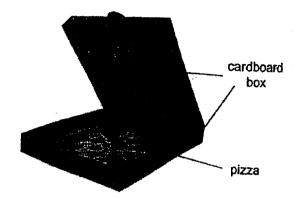
He measured and recorded the amount of water collected for each setup after fifteen minutes in the table.

Temperature of plastic sheet at the start of the experiment (°C)	Amount of water collected in the container (ml)
10	110
20	80
30	50

	e amount of water collected be more or less if a metal sheet of used instead of a plastic sheet at 30°C?
Without a what Has of time.	duling more sea water and changing the plastic sheet, suggest san can do to the set-ups to collect more water in the same amoun

**SCORE** 

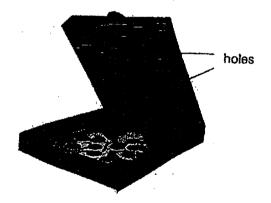
 Mrs Tan placed a freshly baked pizza into a cardboard box to have it delivered to her customer.



Upon receiving the pizza, her customer complained that the inner surface of the cardboard box and the pizza were wet

(a)	Explain why the inner surface of the cardboard box and the pizza, were wet.	[2]

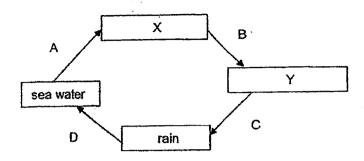
Mrs Tan sent the same customer another pizza in a similar box with holes as shown.



(b)	This time	round, the pizza b	ox was less wel. E	φlain why,	[1]

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SCORE
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10. The diagram represents the water cycle.



(a)	What are X and Y?	[1]
	X:	
	Y:	
(b)	At which part(s), A, B, C or D, of the water cycle is there a change in the state of matter?	[1]
(c)	Many human activities have caused our water bodies to become polluted and unsuitable for use.	
	Which of the following human activities will result in water pollution? Place a tick( $\checkmark$ ) in the correct box(es).	[1]
	Human Activities Tick	
	Using rainwater to water plants.	
	Throwing plastic hags into the sea.	

(d) Water is a limited resource. Give an example of how we can reduce the use [1] of water while washing dishes at home.

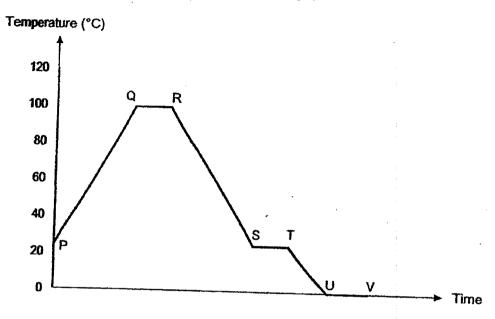
Removing hamful substances from used water through a

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SCORE

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cleaning process.

11. Harris heated a beaker of water over a flame for some time. He then removed the flame. He also placed the beaker of water in the freezer. He recorded the changes in the temperature of the contents of the beaker in the graph.



(a) Name the process that is happening at QR.

(b) Which of the following letters, P, Q, R, S, T, U or V, best represent when the flame was removed and when the beaker of water was placed into the freezer?

[1]

[1]

Flame was removed:

Beaker of water was placed in the freezer:

(c) Based on the graph, which of the following statements are true? Write 'T' if the statement is true and 'F' if the statement is false. [2]

Statements	TorF
Water is freezing at UV.	
Water is gaining heat at PQ only.	
Liquid is the only state of matter in the beaker at ST.	
Water does not evaporate throughout the experiment.	

**End of Paper** 

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**Bite-Sized Assessment 2** 

Dire	-Sizeu Assessment Z				
Q1	(a) System A: Respiratory system				
	System B : Digestive system				
	(b) Carbon dioxide and waste materials				
Q2	(a) The function of the heart is to pump blood to all parts of the				
	body.				
	(b) Blood vessels and blood				
Q3					
1	K, L	J, M			
Q4	(a) Her heart rate was 60 beats	1 7			
	(b) She started excercising at the				
	(c) When a person excercises, th	e heart pumps blood faster so			
	that more oxygen and digested	ood in the blood can be sent to			
	all parts of the body to release n	ore energy.			
Q5					
·					
	(a)(i) P A B C	a.			
	(ii) C was placed in the room with the lowest temperature				
-	thus the rate of evaporation is the slowest, resulting in C having				
1	the greatest volume of water after three hours.				
	(b) (i) Tick : Hang his towel on a rack				
	(ii) He could put his towel near a fan.				
Q6	(a) X's melting point was more to	nan the room temperature of			
	24°C.				
	(b) 25°C				
Q7	To find out if the age of a person	affects the resting heart rate of			
	a person.				
Q8	(a) As the temperature of the pla	stic sheet increases, the amount			
	of water collected in the contain	er decreases.			
٠:	(b) The amount of water colleted	would be more if a metal sheet			
	of 30°C was used.				
	(c) Hassan could heat up the sea	water			
Q9	(a) The water from the pizza gair	ed heat and evaporated to form			
	water vapour which lost heat to and condensed on the cooler				
	surface of the box into water dro	plets.			

	(b) The holes in the pizza box allowed the water vapour in the box to escape, hence the pizza box was less wet.			
Q10	(a) X: water vapour Y: clouds (b) Parts A and B (c) Tick: Throwing plastic bags into the sea. (d) We can wash the dishes in a basin.			
Q11	(a) Boiling (b)			
	Flame was removed :	R		
	Beaker of water was placed in the freezer:	T	2 2	
	(c) T, F, F, F	2		