WA 3

Catholic High School (Primary)
Primary 5 Science 2021
Weighted Assessment 3

Name: _____ ( )

Class: Pri 5 - _____

MARKS	30

Date: 19 August 2021

Parent's Signature: _____

Booklet A (10 × 2 marks)

For each question from 1 to 10, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Write its correct number in the brackets provided. (20 marks)

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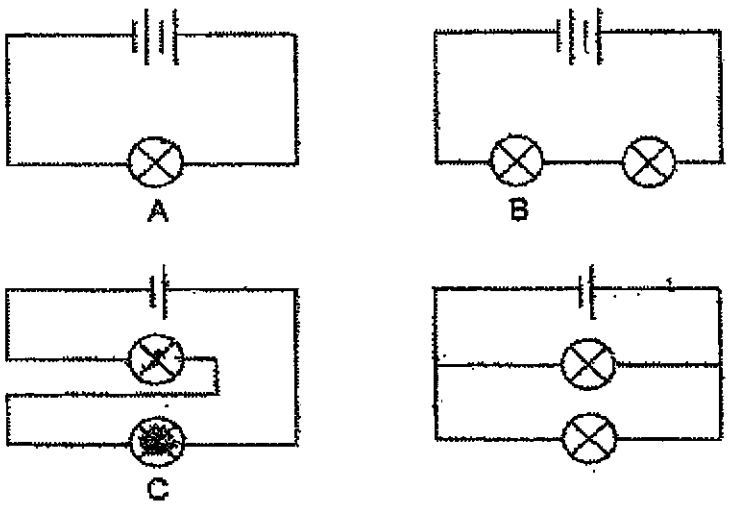
1 Study the circuit diagrams.



Which two bulbs have the same brightness?

(1) A and B

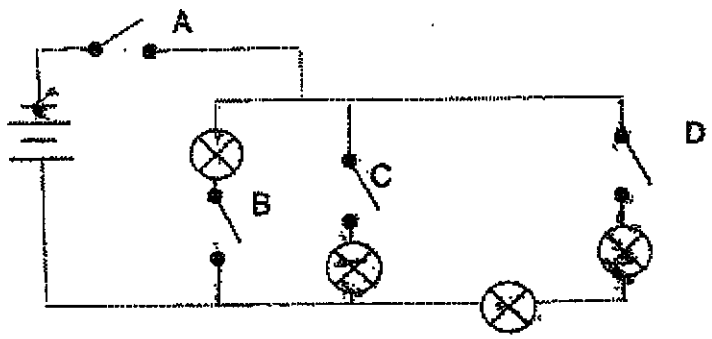
(2) A and C

(3) B and D

(4) C and D

( )

2 Study the circuit diagram.



Which switches must be closed to light up two bulbs such that if one bulb fuses, the other remains lit?

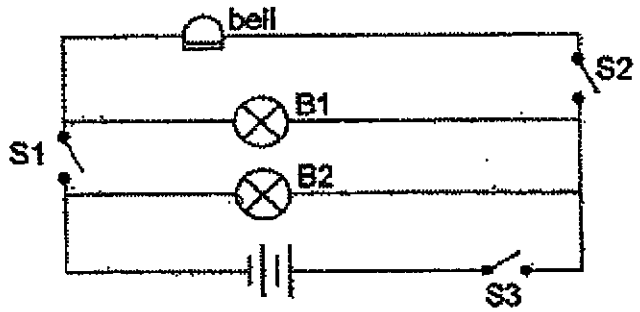
(1) A and D only

(2) B and C only

(3) A, B and C only

(4) A, C and D only ( )

3 Study the circuit diagram.



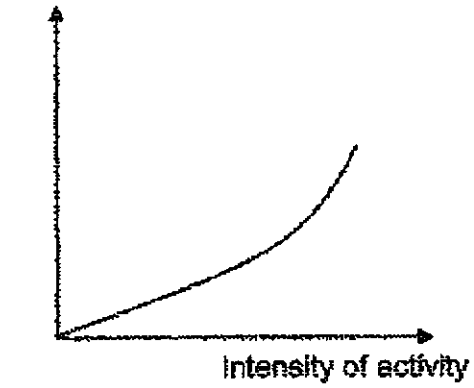
Which of the following is correct?

	S1	S2	S3	Observation
(1)	closed	open	open	Only bulb B1 lit up.
(2)	open	closed	closed	Only the bell rang.
(3)	closed	open	closed	Only bulbs B1 and B2 lit up.
(4)	open	closed	open	Only bulb B1 lit up and the bell rang.

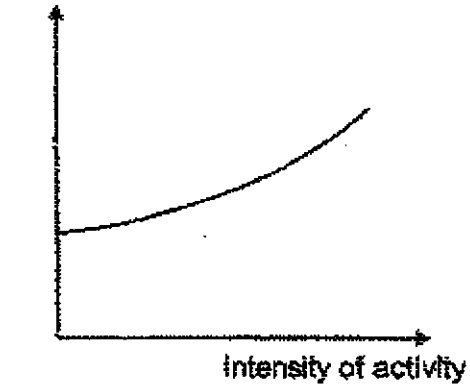
( )

4 Which graph shows the correct relationship between the intensity of an activity and a person's pulse rate?

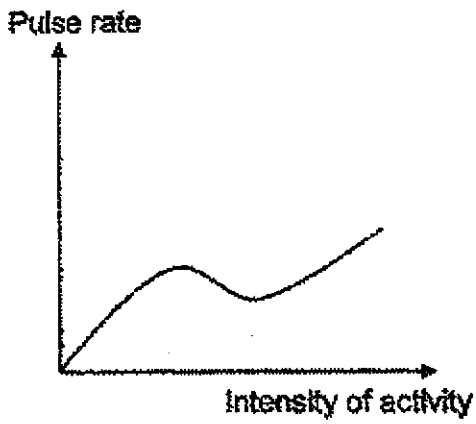
(1)



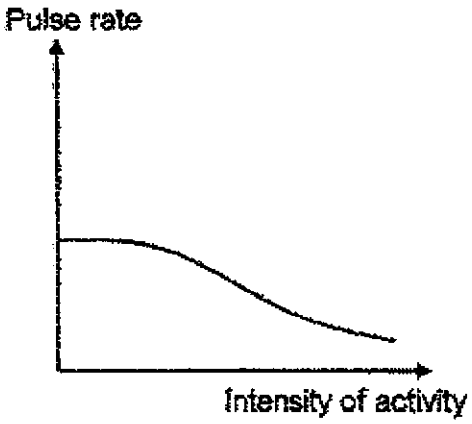
(2)



(3)

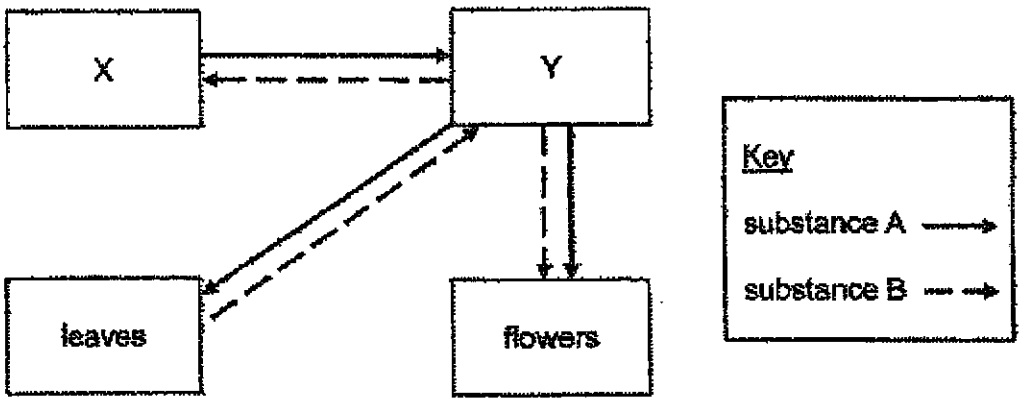


(4)



( )

5 The diagram represents the transport system of a plant.

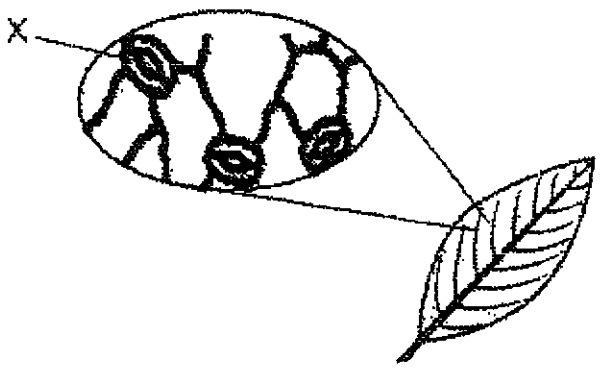


Which of the following correctly identifies parts X and Y and substances A and B?

	X	Y	A	B
(1)	roots	stem	water	food
(2)	roots	stem	food	water
(3)	stem	roots	water	food
(4)	stem	roots	food	water

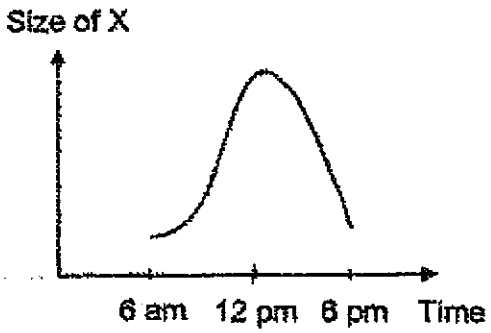
( )

6 The diagram shows tiny openings, X, on the underside of a leaf when seen under a microscope.

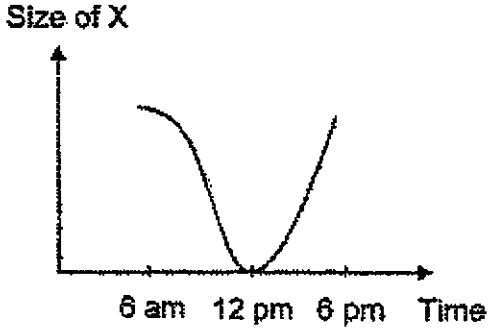


Which graph correctly shows how the amount of light affects the size of X?

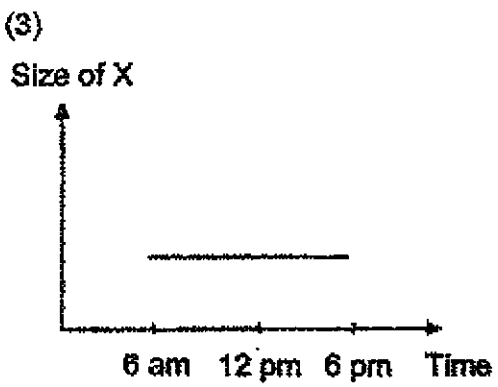
(1)



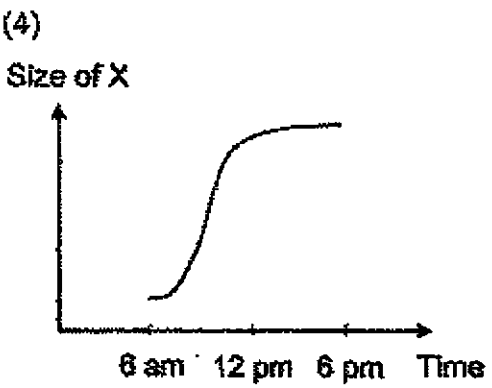
(2)



(3)

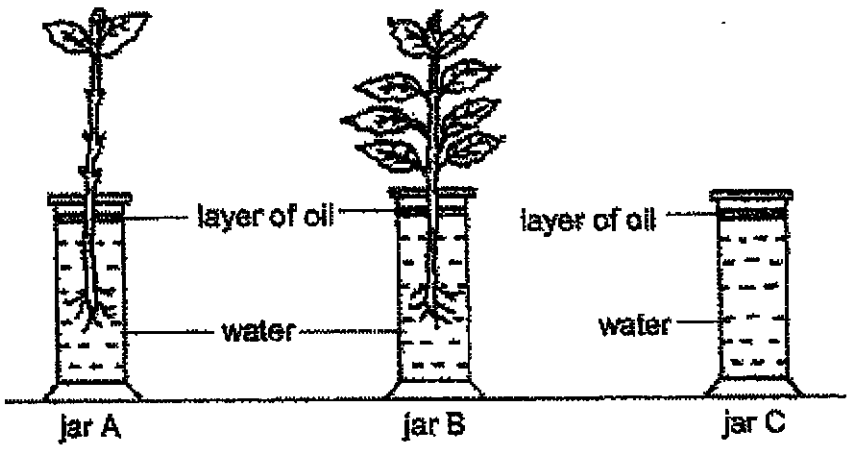


(4)



( )

7 Zul filled three jars of the same size with 100 ml of water. He put two plants of similar size in jars A and B. He removed some of the leaves from the plant in jar A. He placed each jar near a window.

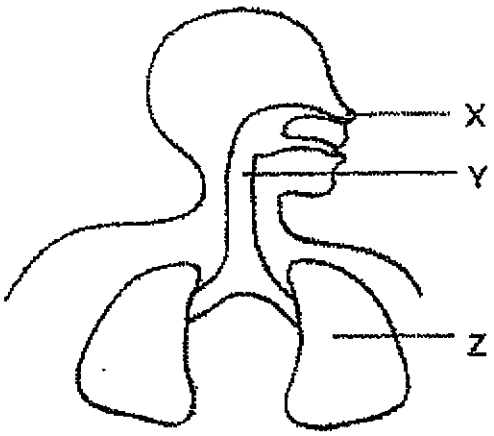


What would likely be the volume of water left in jars A, B and C after five hours?

	Volume of water left (ml)		
	A	B	C
(1)	80	45	100
(2)	45	100	80
(3)	100	80	45
(4)	45	80	100

( )

8 The diagram shows the human respiratory system.

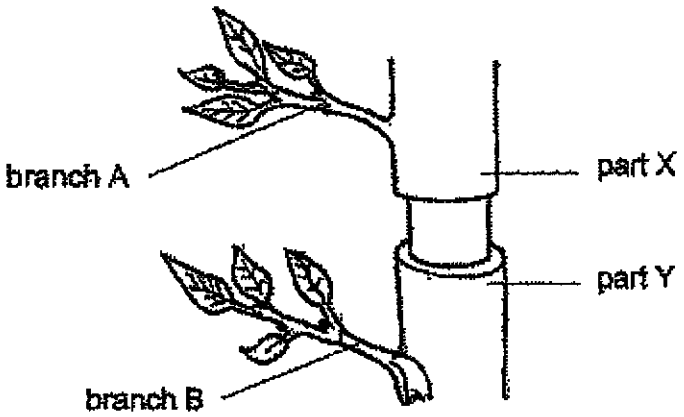


Which of the following correctly describes the function of parts X, Y and Z?

	X	Y	Z
(1)	removes harmful gases from the air	absorbs air into the lungs	gaseous exchange takes place
(2)	filters dust and dirt in the air	allows air to pass through from the nose to the lungs	gaseous exchange takes place
(3)	filters dust and dirt in the air	absorbs air into the lungs	absorbs oxygen and carbon dioxide
(4)	traps bacteria and dust in the air	allows air to pass through from the nose to the lungs	removes carbon dioxide from the lungs

( )

9 The diagram shows the stem of a plant. The food-carrying tubes were removed from the stem.

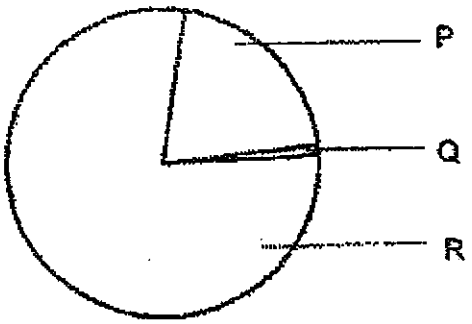


Which of the following correctly shows the effect on the parts of the stem one week after the food-carrying tubes had been removed?

	A	B	X	Y
(1)	healthy	wilted	swollen	not swollen
(2)	wilted	healthy	not swollen	swollen
(3)	wilted	wilted	not swollen	not swollen
(4)	healthy	healthy	swollen	swollen

( )

10 The diagram shows the amount of gases, P, Q and R, in the air.



Which statement(s) is/are correct?

A Less gas R is breathed out than breathed in.

B Gas P is important for living things to survive.

C During a 200 m race, an athlete produces more gas Q in his body.

D Gases P, Q and R can be found in the windpipe during breathing.

(1) A only

(2) A and C only

(3) B and D only

(4) B, C and D only ( )

Booklet B (10 marks)

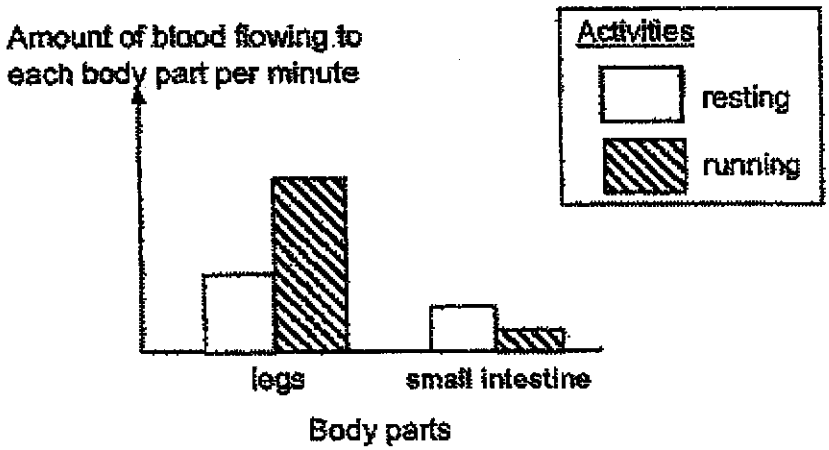
For questions 11 to 14, write your answers in this booklet.

The number of marks available is shown in brackets [ ] at the end of each question or part question. (10 marks)

11 The diagram below represents three human body organs.

(a) Draw two arrows to connect the body organs to show the direction of the flow of blood that is rich in oxygen. [1]

The graph shows how two activities affect the amount of blood flowing to each body part.



(b) Based on the graph, compare the volume of blood flowing per minute to the small intestine between resting and running. [1]

_____

_____

(c) Based on the graph, explain how running after a meal affects the absorption of digested food into the small intestine. [1]

_____

_____

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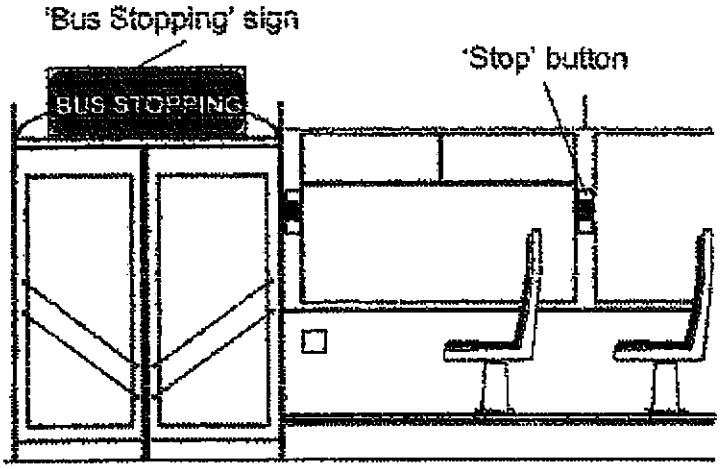
SCORE 3

12 The diagram shows the interior of a bus.



A passenger who wishes to alight will press the 'Stop' button. The 'Bus Stopping' sign will light up and a sound can be heard at the same time.

The 'Stop' button and the 'Bus Stopping' sign are connected by wires.

Using the symbols provided, draw a circuit diagram to show how the 'Stop' button and the 'Bus Stopping' sign are connected in the bus so that when one does not work, the other will still work. [2]

stop button

bus stopping sign

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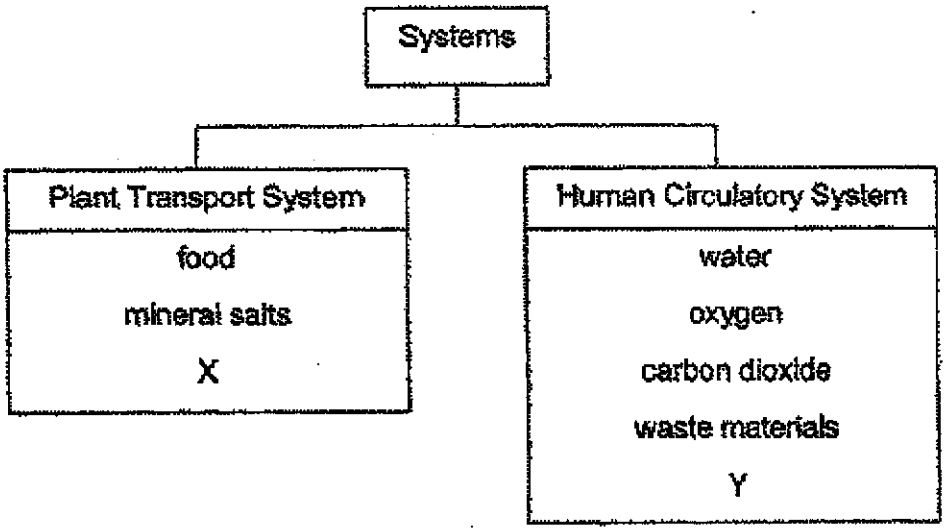
SCORE 2

13 Study the diagram below.



(a) There are two missing substances in the diagram above.

Name the missing substances X and Y. [1]

X: _____

Y: _____

(b) A plant will die after some time if its water-carrying tubes are removed. Explain why. [1]

_____

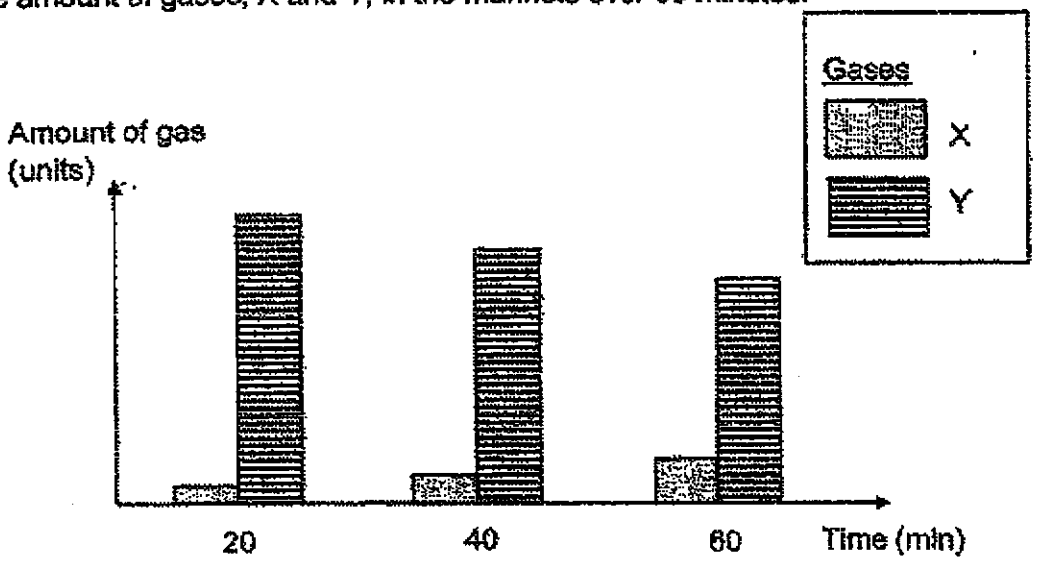
_____

(Go on to the next page)

SCORE 2

14 The diagram below shows two workers who were trapped in a sealed manhole at a construction site.

They started to jump and kick the wall for 20 minutes. The graph below shows the amount of gases, X and Y, in the manhole over 60 minutes.



(a) Name the two gases. [1]

X: _____

Y: _____

(b) If the workers did not jump or kick the wall, would the amount of gas Y be more than, less than or the same as the amount at the 60th minute? Explain your answer. [2]

_____

_____

_____

End of Paper

SCORE 3

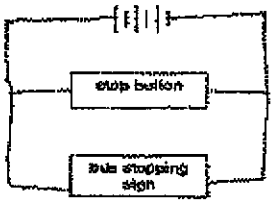
ANSWER KEY

YEAR : 2021
LEVEL : PRIMARY 5
SCHOOL : CATHOLIC HIGH SCHOOL
SUBJECT : SCIENCE
TERM : WEIGHTED ASSESSMENT 3

BOOKLET A

Q1	3	Q2	3	Q3	3	Q4	2	Q5	1
Q6	1	Q7	1	Q8	2	Q9	4	Q10	4

BOOKLET B

Q11	a)	lungs→heart→small intestine
	b)	When resting, the blood flowing per minute to the small intestine when resting is more than the amount of blood
	c)	During running, less blood is flowing to the small intestine and so there is slower absorbtion of food.
Q12		
Q13	a)	X: water Y: digested food
	b)	The plant will not be able to get water causing the leaves to die when the leaves die there would be no more food for the plant therefore resulting in the plant dying.
Q14	a)	X: carbon dioxide Y: oxygen
	b)	The amount of gas Y would be more than the amount at the sixth minute as when the workers jumped and kicked the wall , they would need more of gas Y for respiration so that they could have the more energy to jump and kick.

END