AGrader LEARNING CENTRE
Discover the Ace in You

P5 Science EOY Revision

P6 SCIENCE

Booklet A: Multiple Questions

Choose the most suitable answer and write its number in the brackets.

1. The table shows the traits of Siti and her family members.

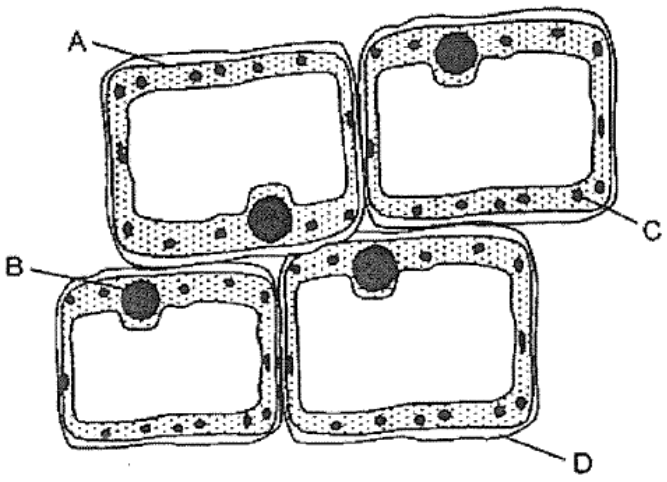
	Length of fingernails	**Eyelids**	**Earlobes**
Siti	short	double	attached
Siti's father	short	single	attached
Siti's mother	short	double	detached
Siti's brother	long	single	detached

Which one of the following statements is true about Siti's family?

(1) Siti inherited her short fingernails from both her parents.
(2) Siti's brother inherited his detached earlobes from his father.
(3) Siti did not inherit any of the three traits from her mother.
(4) Siti's brother inherited his single eyelid from his father.

( )

2. Ali observed some leaf cells using a microscope. The cells are shown in the diagram. The parts of the cells are labelled as A, B, C and D.

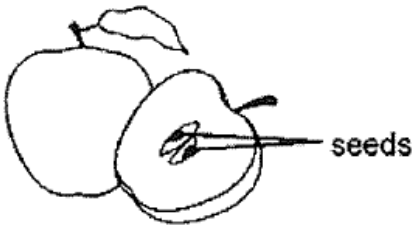


Which of the following parts of the cells have been correctly matched to their functions?

	Contains the genetic information of the plant	Traps light energy from the Sun to make food	Supports and gives the cell a regular shape
(1)	B	D	A
(2)	C	B	A
(3)	B	C	D
(4)	C	B	D

( )

3. The diagram shows a fruit containing seeds.



Which one of the following statements is true about the seeds?

(1) The seeds are dispersed by splitting action.
(2) The seeds develop from the ovule of the flower.
(3) The seeds need only water to grow into a new plant.
(4) Only pollination needs to take place for the seeds to be produced.

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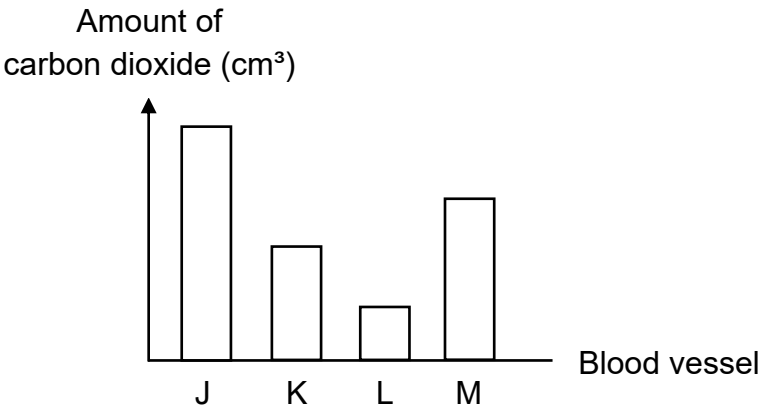
4. Four blood samples were taken from different blood vessels, J, K, L and M, in the human body. The graph shows the amount of carbon dioxide in the blood from each vessel.



Which blood vessel was most likely carrying blood from the lungs to the heart?

(1) J
(2) K
(3) L
(4) M

( )

Section B

Write your answers in the spaces provided.

5. Xueli soaked four identical shirts, W, X, Y and Z, in the same amount of water before hanging them to dry under different conditions. She then measured and recorded the mass of the shirts after 6 hours.

Shirt	Conditions	Mass of shirt after 6 hours (g)
W	unfolded and hung in the sun	100
X	folded in half and hung in the sun	150
Y	folded in half and hung in the shade	200
Z	folded to one-third its actual size and hung in the shade	300

(a) Xueli compared the mass of shirts W and X after 6 hours.
Explain the difference in their masses. [2]

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(b) Xueli wanted to investigate the effects of temperature on the mass of the shirts.
Which two shirts should she use? Explain your answer. [1]

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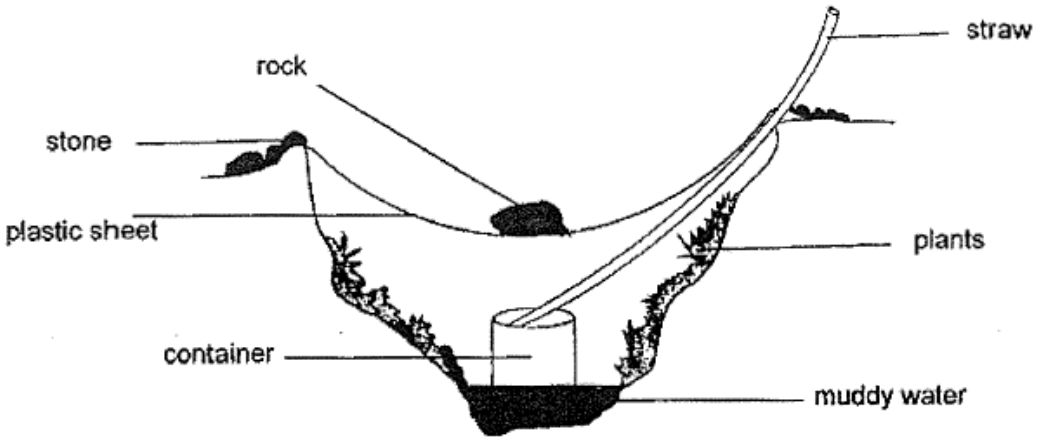
6. After a long and hot day of hiking, a group of students set up the system below to collect drinkable water. After a few hours, some water is collected in the container.



(a) Draw in the above diagram a possible observation the students can make at the plastic sheet. [1]

(b) Explain how drinkable water is collected in the container. [2]

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(c) Suggest how the presence of plants affects the amount of water collected. [1]

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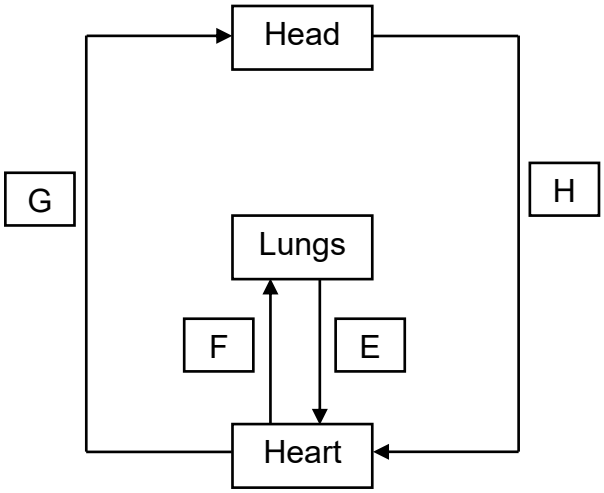
7. In the diagram below, the arrows represent the flow of blood in the human body.



(a) What is the difference in the amount of oxygen in blood at E versus F? (1m)

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_____

(b) Why is there lesser oxygen in the blood at H compared to G? (1m)

_____

_____

(c) Explain how the respiratory system works with the circulatory system to help a person run during a race. (2m)

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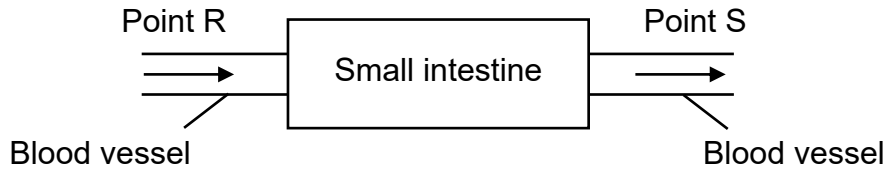
(d) The arrows show blood entering and leaving the small intestine.



At which point, R or S, is there more digested food in the blood? Give a reason why. (1m)

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