Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B2 Organisation

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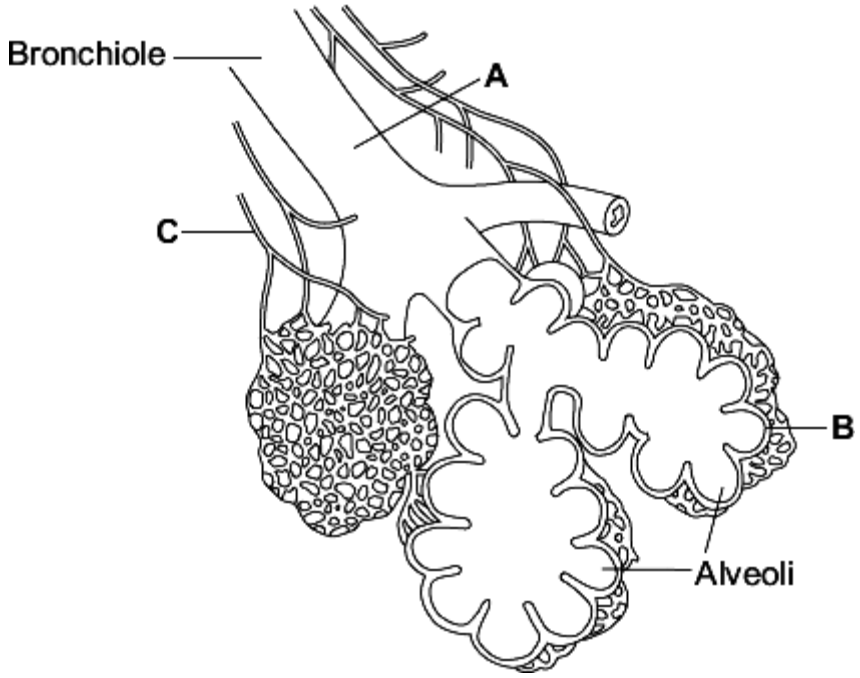
Name of the Student:_____
Max. Marks : 19 Marks **Time : 19 Minutes**

Q1.

People with asthma sometimes find it difficult to breathe.

Diagram 1 shows part of a human lung. Bronchioles are tubes that carry air to the alveoli.

Diagram 1



(a) Which letter, **A**, **B** or **C**, shows where oxygen enters the blood?

(1)

(b) **Diagram 2** shows a section through a bronchiole of a healthy person and of a person suffering from asthma.

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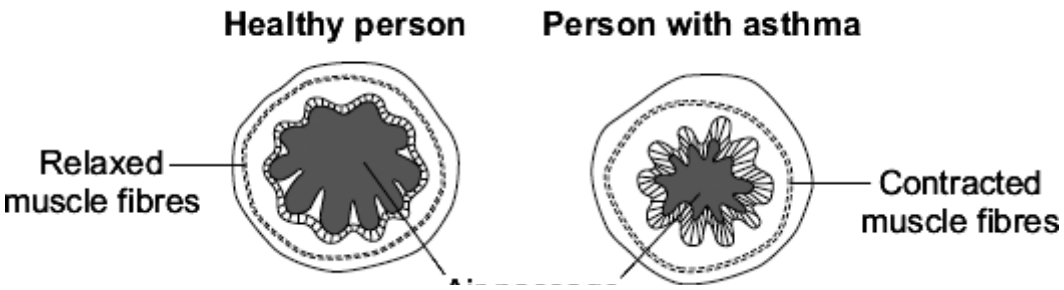
Diagram 2



The person with asthma may find it difficult to breathe.

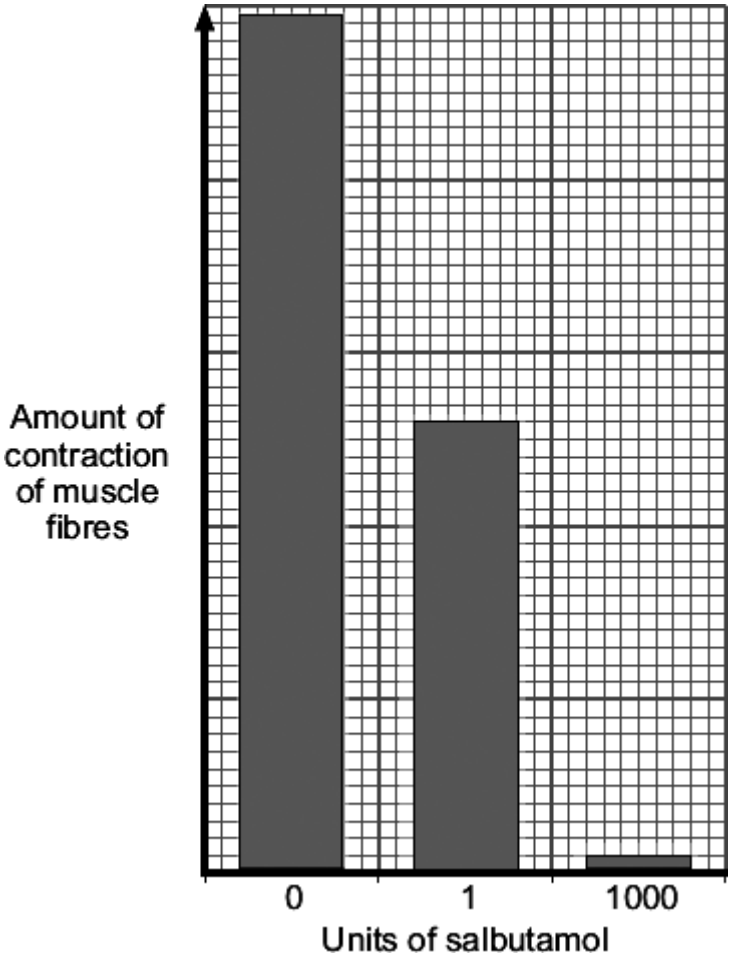
Use information from **Diagram 2** to give the reason for this.

_____

_____

(1)

(c) A person has asthma. The bar graph shows the effect of the drug salbutamol on the contraction of the muscle fibres in the wall of this person's bronchioles.



(i) Describe the effect of salbutamol on the person's muscle fibres.

_____

_____

(1)

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(ii) How does salbutamol help this person?

_____

_____

(1)

(Total 4 marks)

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Q2.

(a) Draw a ring around **one** word to answer each of the following questions.

(i) Which type of blood vessel carries blood out of the heart?

artery **capillary** **vein**

(1)

(ii) Which type of blood vessel allows substances to enter and leave the blood?

artery **capillary** **vein**

(1)

(b) Use words from the box to complete the sentences.

alveoli	**cell membrane**	**nucleus**
plasma	**red blood cells**	**villi**

Oxygen enters the blood through the walls of the _____ .

Most of the oxygen transported by the blood is carried in the

_____ .

A red blood cell is different from other body cells because it does not have a

_____ .

(3)

(Total 5 marks)

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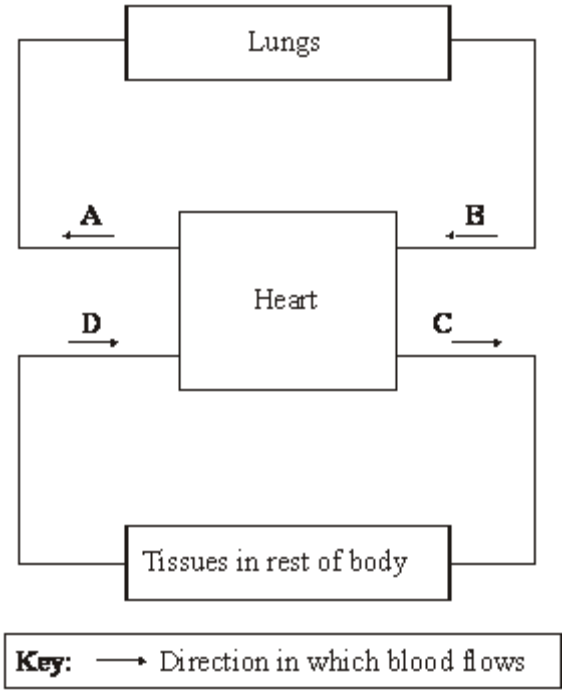
Q3.

The diagram represents the human blood circulation system.



(a) **A**, **B**, **C** and **D** are blood vessels.

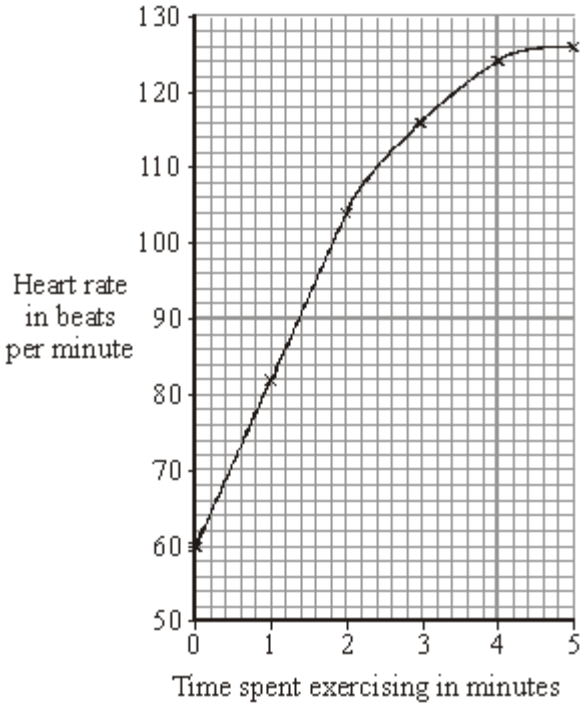
(i) Give the letter of **one** blood vessel that is an artery. _____

(1)

(ii) Give the letter of **one** blood vessel that is a vein. _____

(1)

(b) A student pedalled an exercise cycle at constant speed for 5 minutes. The student's heart rate was recorded at one-minute intervals during the exercise. The results are shown in the graph.



(i) What was the student's heart rate before the exercise began?

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_____ per minute

(1)

(ii) How long was it before the student's heart rate reached 124 beats per minute?

_____ minutes

(1)

(c) Which of the following parts of the blood carries most oxygen?

Draw a circle around **one** answer.

plasma **red blood cells** **white blood cells**

(1)

(Total 5 marks)

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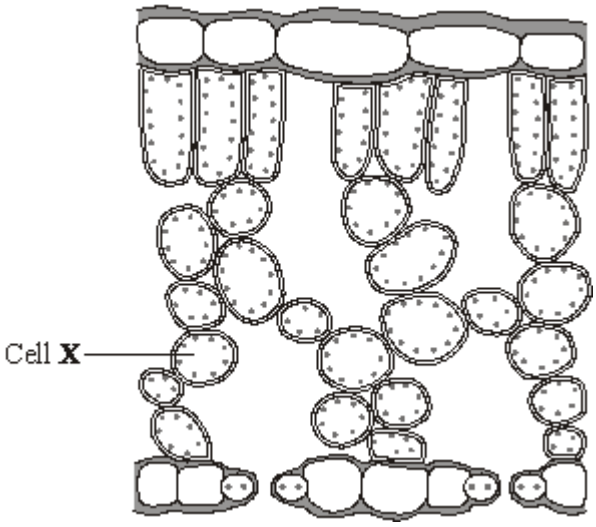
Q4.

(a) The diagram shows a section through a plant leaf.
Water evaporates from cell **X**.



(i) **On the diagram**, draw an arrow to show how water vapour from cell **X** gets out of the leaf.

(1)

(ii) Name the process by which water vapour is lost from a leaf.

Draw a circle around **one** answer.

osmosis **transpiration** **wilting**

(1)

(b) The graph shows how much water was lost from a plant at different times of the day.

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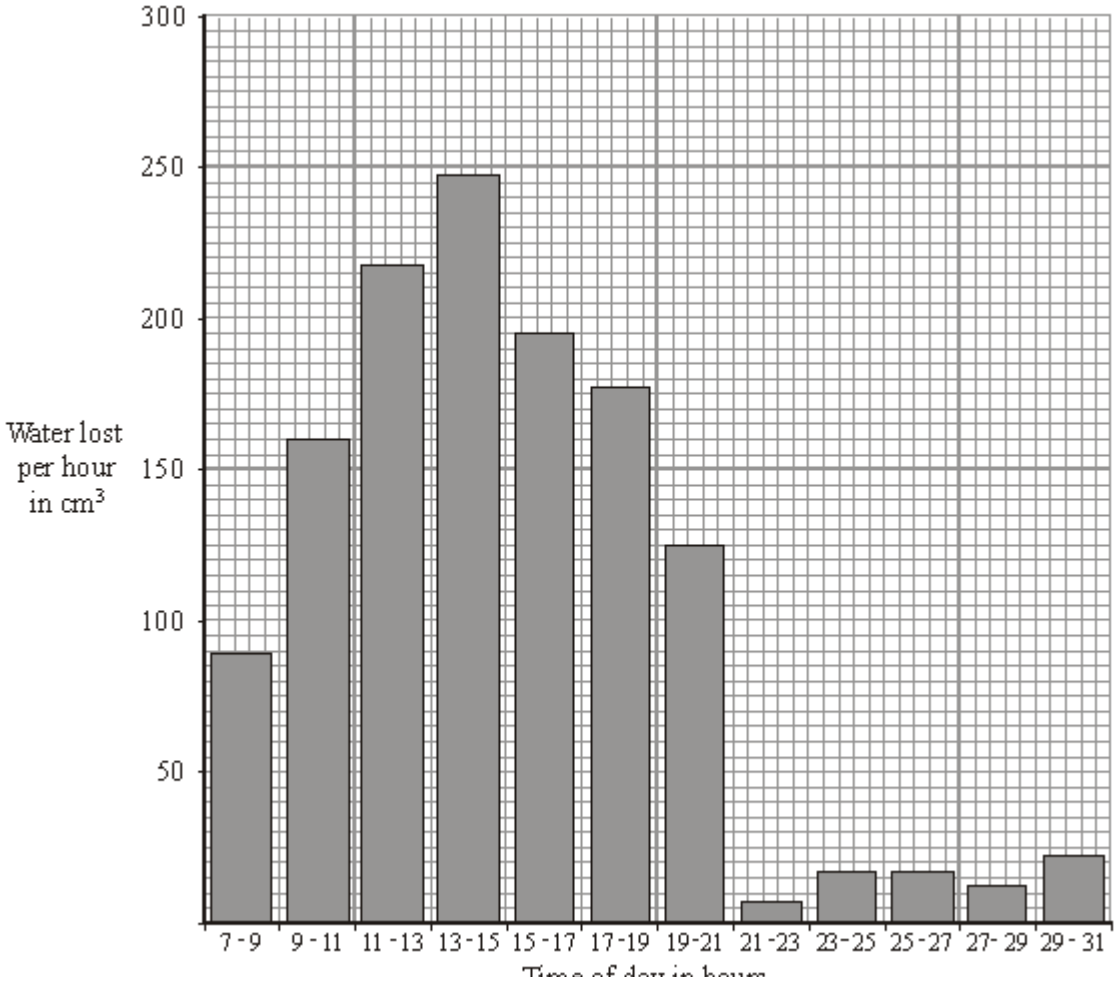

(i) During which 2-hour period was water lost most quickly?

_____

(1)

(ii) Give **one** possible explanation why water was lost most quickly at this time.

_____

_____

_____

_____

(2)

(Total 5 marks)

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