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

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Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Q1.

The table gives information about a geranium plant and a cactus plant.

The geranium grows in gardens in the UK. The cactus grows in hot deserts.

Feature	Geranium	Cactus
Thickness of waxy cuticle in micrometres	5	15
Total leaf surface area in cm^2	1800	150
Percentage of water storage tissue in stem	50	85
Number of stomata per mm^2	59	13
Time of day when stomata open	daylight	at night
Horizontal spread of roots in metres	0.2	5

Using only information in the table, explain how the cactus is better adapted for living in hot, dry conditions.

To gain full marks in this question you should write your ideas in good English. Put them into a sensible order and use the correct scientific words.

_____

_____

_____

_____

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_____

(Total 5 marks)

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Q2.

Complete each sentence about the heart by choosing the correct words from the box.

an artery	**an atrium**	**a cuspid valve**
a semi-luna valve	**a vein**	

A ventricle fills with blood by the contraction of _____ .

When a ventricle contracts, blood is forced into _____ .

When a ventricle relaxes, the backflow of blood into it is prevented by the closing of

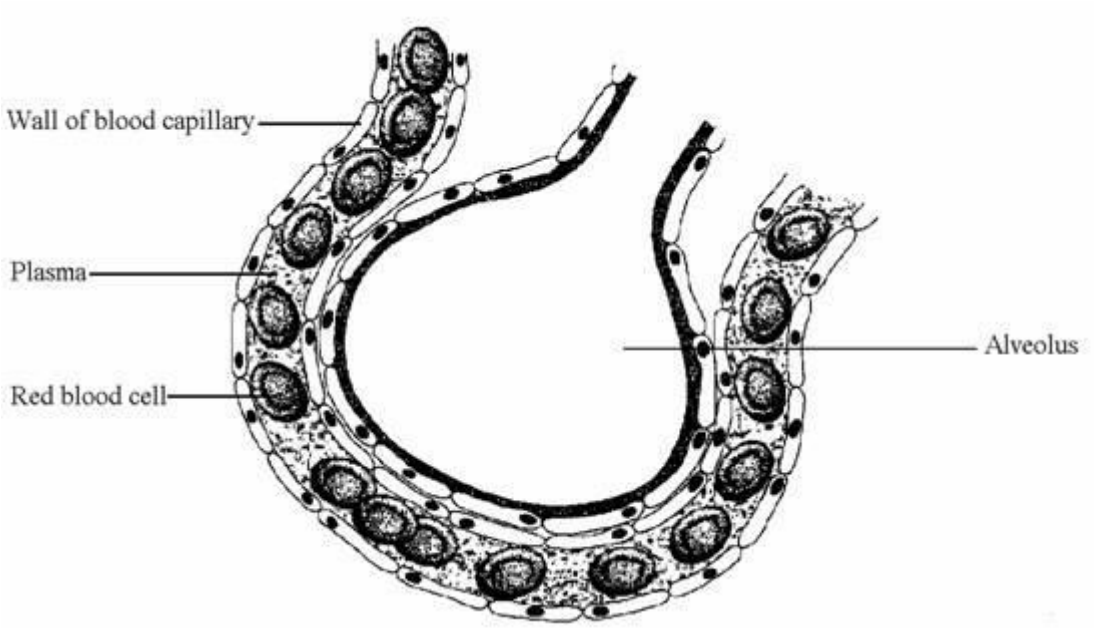
_____ .

(Total 3 marks)

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Q3.

The diagram shows a part of a lung that is involved in gaseous exchange in a human.



(i) Draw and label, on the diagram, **one** arrow to show the direction of movement of oxygen between the alveolus and capillary.

(1)

(ii) Draw and label, on the diagram, **one** arrow to show the direction of movement of carbon dioxide, between the alveolus and capillary.

(1)

(iii) Give the function of the red blood cell in this process.

_____

_____

_____

(1)

(Total 3 marks)

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Q4.

(a) What type of blood vessels join arteries to veins?

_____

(1)

(b) How are oxygen and carbon dioxide carried in the blood?

_____

_____

_____

_____

(2)

(c) List **three** things that are carried around the body in the blood plasma.

1. _____

2. _____

3. _____

(3)

(Total 6 marks)

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Q5.

The following sentences are about the blood system. Choose words from the list in the box to complete these sentences. You may use a word once or not at all.

diffuse	lowered	narrow	one
raised	spread	two	wide

Capillaries have thin walls which are _____ .cell thick. This allows nutrients from digested food to _____ through and reach the cells of organs. Capillaries are very _____ .and so blood flow through an organ is slowed down and blood pressure is _____ .

(Total 4 marks)

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