**FORM 2**

**BIOLOGY**

**TIME: 1 HOUR.**

**NAME…………………………………………………………………………………**

**ADM NUMBER……………………………………**

***Answer ALL the questions in the spaces provided (30marks).***

1. Explain how the red blood cells of mammals are adapted for efficient transport of oxygen. (2marks)

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2. Give two reasons why the pressure of blood is greater in the arteries that in the veins of mammals. (2marks)

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3. Most carbon dioxide is transported from tissues to the lungs within the red blood cells and not in the blood plasma. Give two advantages of this mode of transport. (2marks)

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4.State two functions of mammalian blood other than transport of substances (2marks) ………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….……………………………………...............……………………………………………………

5. Name a structure in veins which is not found in other blood vessels, that adapts them to their function. (1mark)

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6.The diagram below represents a transverse section of a young stem



a).Name the parts labelled A and B (2 marks) A………………………………………………………………… B…………………………………………………………………

b).State the functions of the parts labelled C, D and E (3 marks)

C …………………………………………………………………………………………..

D ………………………………………………………………………………………….

E …………………………………………………………………………………………

(c) List two differences between the section shown above and one that would be obtained from the root of the same plant (2 marks)

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**7.** (a) How may excessive bleeding results in death? (3 marks) ………………………………………………………………………………………………… ………………………………………………………………………………………………… ………………………………………………………………………………………………… ……………………………………………………………………………………………

(b) Name the process by which the human body naturally stops bleeding? (1 mark) …………………………………………………………………………………………………

(c) How can low blood volume be brought back to normal (2 marks) ………………………………………………………………………………………………… ………………………………………………………………………………………………… …………………………………………………………………………………………………

8. The diagram below represents then pathways of water from the soil into the plant.



1. Name the structures labelled K and L. (2 marks)

K………………………………………….

L………………………………………….

1. Explain how water from the soil reaches the structure labelled L. (5 marks) ……………………………………………………………………………………… ……………………………………………………………………………………… ……………………………………………………………………………………… ……………………………………………………………………………………… ……………………………………………………………………………………………

(c) Name the process by which mineral salts enter into the plant (1 mark)

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