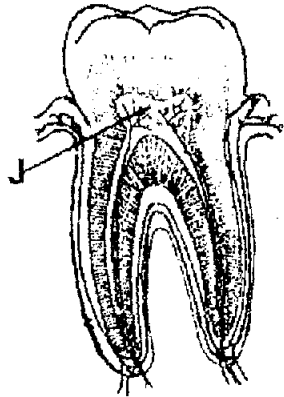


Adm No.....Name.....class.....

FORM TWO BIOLOGY END OF EXAM
TERM II 2015. Time 2hrs

1.The diagram below represents a section through a human tooth.



a) Name the type of tooth shown.

(1mk)

b) Give a reason for your answer in (a) (i) above.

(1mk)

2. a) The action of ptyalin(salivary amylase) stops at the stomach. Explain.

(1mk)

b) The small intestine is long and coiled. State the importance the intestine being
(i) long.

(1mk)

(ii) coiled

(2mks)

3. Define the following terms as used in nutrition in animals

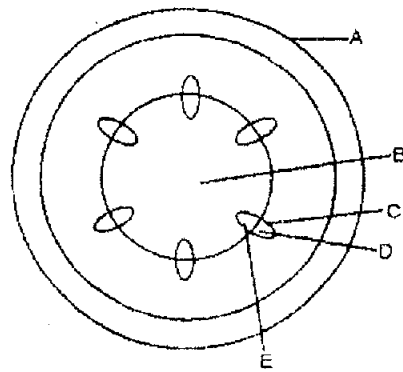
(3mks)

a) Ingestion

b) Digestion

c) Assimilation

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



a) Name the parts labeled A and B
A

(2mks)

B

b) State the functions of the parts labeled C, D and E. (3mks)

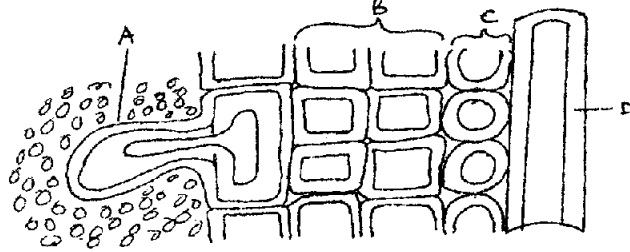
C

D

E

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

5. The diagram below shows part of a longitudinal section of a young root.



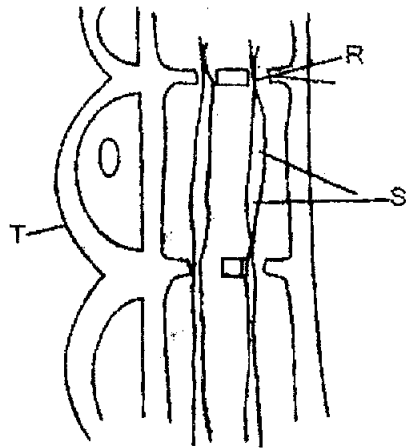
(a) Name the parts labelled A, B, C and D. (4 marks)

(b) State the function of the part labeled A. (1 mark)

(c) How is the tissue labeled D adapted to its function. (3 marks)

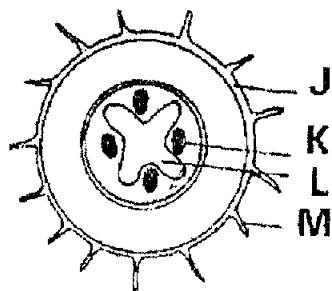
- c) Name the process by which mineral salts enter into the plant. (1mk)

6. The diagram below represents part of phloem tissue



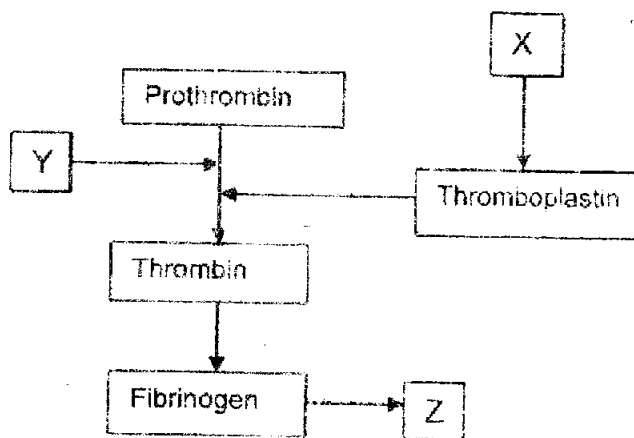
- a) Name the structures labeled R and S and a cell labeled T.
R
S
Cell T (3mks)
- b) State the function of the structure labeled S. (1mk)
- c) Explain why xylem is a mechanical tissue (1mks)

7. The diagram below represents a transverse section through a plant organ.



- a) From which plant organ was the section obtained? (1mk)
- b) Give two reasons for your answer in (a) above. (2mks)
- c) Name the parts labeled J, K and L (3mks)
 - J
 - K
 - L
- d) State two functions of the part labeled M. (2mks)

8. The chart below is a summary of the blood clotting mechanism in man.



Name

- i) The blood cells represented by X. (1mk)
- ii) Metal ion represented by Y. (1mk)
- iii) The end product of the mechanism represented Z. (1mk)

9. Explain how the red blood cells of mammals are adapted for efficient transport of oxygen. (3mks)

- a) i) Name the blood vessels that link arterioles with venules. (1mk)
- ii) Explain four ways in which the vessels you named in (a) above are suited to carrying out their functions. (4mks)
- b) State two ways in which the composition of blood in the pulmonary capillaries differ from that in the pulmonary venules.

10. Name two structures used for gaseous exchange in plants. (2mks)

11. Name the main medium of gaseous exchange in

- a) Mammals
- b) Fish
- c) Leaves
- d) Amoeba (4mks)