

Adm No _____ NAME _____

GATTU SECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.
FORM 2 BIOLOGY MID TERM EXAMINATION, TERM 2 2015.

NAME: _____ **CLASS:** _____ **ADM:** _____

1. Name the blood vessel that transport blood from

- i) Heart to the lungs _____ (1mk)
- ii) Small intestines to the liver _____ (1mk)

2. State 3 functions of blood other than transport. (3mks)

- i) _____
- ii) _____
- iii) _____

3. List the main blood vessels and chambers of the heart through which blood would have to pass when taking the shortest route from.

i) Vena cava to left ventricle. (3mks)

ii) Aorta to intestines, and back to the vena cava. (3mks)

iii) Left ventricle to the liver (2mks)

4. Distinguish between

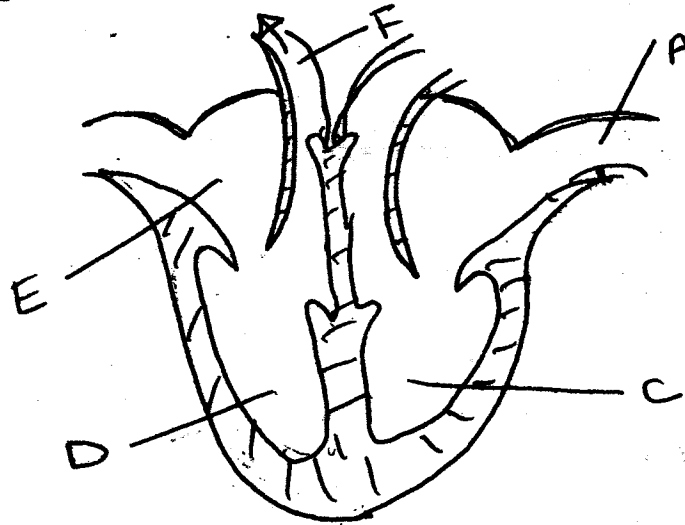
a) Open and closed circulation (2mks)

b) Single and double circulation (2mks)

c) State 3 structural differences between arteries and veins. (3mks)

Arteries	Veins
i)	
ii)	
iii)	

5. The diagram below shows a vertical section through a mammalian heart.



i) Name the parts labeled (4mks)

A

B

E

F

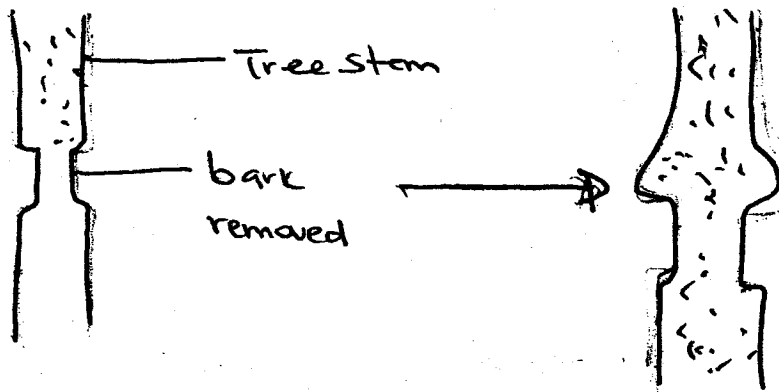
ii) Give a reason why the wall of chamber C is thicker than chamber D. (2mks

iii) State the importance of the following structures in the mammalian circulatory system

i) Valves in the veins (2mks

ii) Thicker arterial walls (2mks

6. Study the diagram below and answer the following questions.



i) What's the aim of the experiment i(2mark

ii) Account for the observed results (3mks

iii) Does the set up shown in the experiment affect flow of water up the plant? Give reasons for your answer. (3mks)

iv) What would you expect to eventually happens to the tree that has had a complete ring of the bark removed? (2mks)

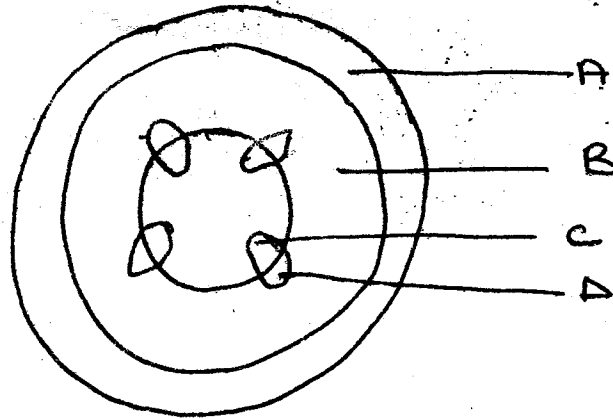
v) Give a reason for your answer (2mks)

7. Explain the following

i) When transplanting a seedling, it is advisable to remove some of the leaves. (2mks)

ii) There are generally fewer stomata on the upper side of a leaf than lower side. (2mks)

8. The figure below shows T.S. diagram of dicotyledonous stem.



i) Identify the parts.

(2mks

A

B

ii) Is the stem a monocot or a dicot stem? Give a reason.

(3mks

iii) State the functions of the part labeled D

(2mk

iv) How is structure labeled C adapted to its function (2mks

i)

ii)

iii)

d) Draw a diagram to show T>S of the root obtained from the above plant (Label at least 5 parts) (5mks)

9. Briefly describe the relaxation phase (diastole) during pumping mechanism of heart. (10mks)