

ADM NO.....NAME.....CLASS.....

GATITU SECONDARY SCHOOL P.O BOX 327 GATUNDU.
BIOLOGY TERM TWO EXAM. F2

Attempt all questions .

1.Name the disease in human beings that is caused by lack of vitamin C .

.....(1mk)

(b)Name a disease caused by lack of the following in human diet .(2mks).

Vitamin D.....

Iodine.....

2.Describe how the mammalian small intestines is adapted to its functions.

(i).....

.....

(ii).....

.....

(iii).....

.....

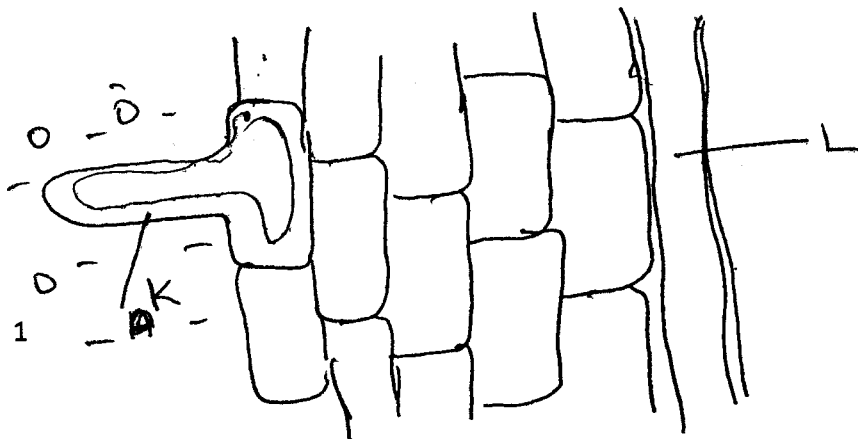
(iv).....

.....

(v).....

.....

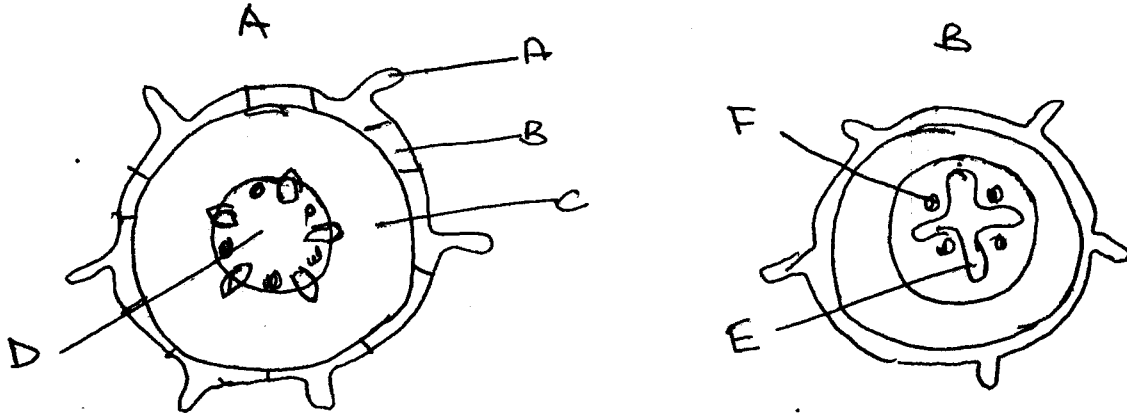
3The diagram below represent the pathway of water from the soil into the plant



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

.....

4. The diagram below shows section through plant organs



(a) Label parts.....(6mks)

A,.....

B.....

C.....

D.....

E.....

F.....

(b) Give 2 differences between parts labeled A and B .

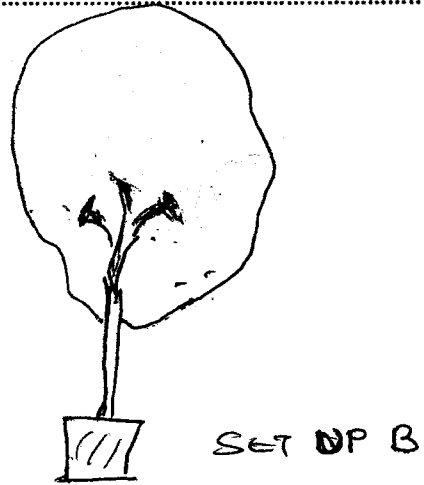
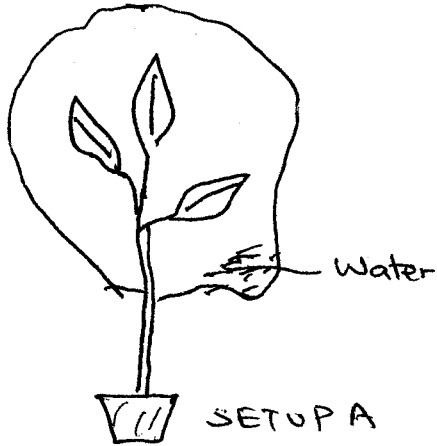
| | A | B |
|------|-------|-------|
| (i) | | |
| (ii) | | |

c) State two ways in which the xylem vessels are adapted to their function.(4mks)

(i).....

(ii).....

5.A form 2 student set up an experiment as shown below .



(I)What was the aim of the experiment above(2mks)

.....

(ii)State and explain results in:

(a)Set up A.....

.....
.....

(b) Set up B.....

.....
.....

6 An experiment was carried out to investigate the effect of temperature on a certain reaction speeded by a certain enzyme
The results are in the table below .

| Temperature. (0°C) (in degrees centigrade) | Rate of reaction in mg of products per unit time. |
|--|---|
| 5 | 2 |
| 10 | 5 |
| 15 | 8 |
| 20 | 11 |
| 25 | 15 |
| 30 | 21 |
| 35 | 30 |
| 40 | 37 |
| 45 | 34 |
| 50 | 28 |
| 55 | 21 |
| 60 | 11 |
| | |
| | |

a) On the grid provided draw a graph of rate of reaction against time (6MKS)

b) When was the rate of reaction 26mg of product of product per unit area? (2mks).....

.....

c) Account for the shape of the graph between:

(i) 5°C and 40°C (3mks)

.....

.....

.....

(ii) 45°C and 60°C (3 mks)

.....

.....

.....

d) Name one digestive enzyme in the human body which works best under acidic condition (1mk)

.....
(e (i) How is the acidic condition for the enzyme named in C above attained (2mks).....

.....
.....

(ii) The acidic condition in e(i) above is later neutralized .

a) Where does neutralization take place?.....

.....

b) Name the substance responsible for neutralization

7. Below is a dental formulae of a certain mammal

I_{3}^{0} C_{1}^{0} $PM \frac{3}{3}$ $M \frac{3}{3}$

(. i) State the likely mode of feeding for your answer in 7a above

.....

8. Describe the digestion of starch from the mouth to the final products.