

GATITU SSECONDARY SCHOOL, P.O. BOX 327 – 01030, GATUNDU.

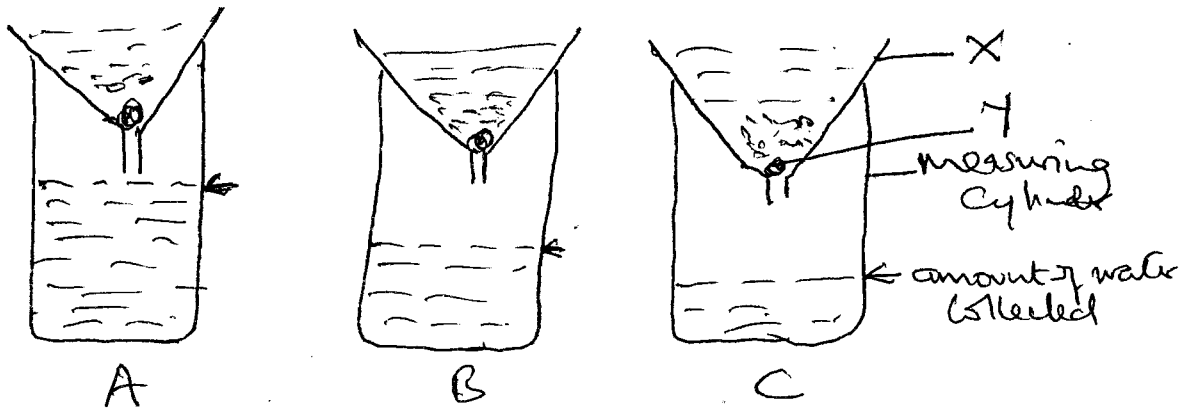
FORM 1 AGRICULTURE. MID TERM EXAMINATION TERM 2 2016.

NAME: _____ ADM: _____ CLASS: _____

1. The following experiment was carried out to determine some components of a soil. A soil sample weighing 200gms was heated in an oven at 105°C. The dry soil was weighed and weight recorded as 150gms. The soil was then strongly heated after which the weight was recorded as 120gms.

- a) What was lost from the soil when soil was heated at 105°C? (2mks)
- b) Calculate the percentage content of the lost substance in (a) above. (4mks)
- c) What substance was lost from the soil after strongly heated the soil. (2mks)
- d) Calculate the percentage of the substance lost in © above. (4mks)

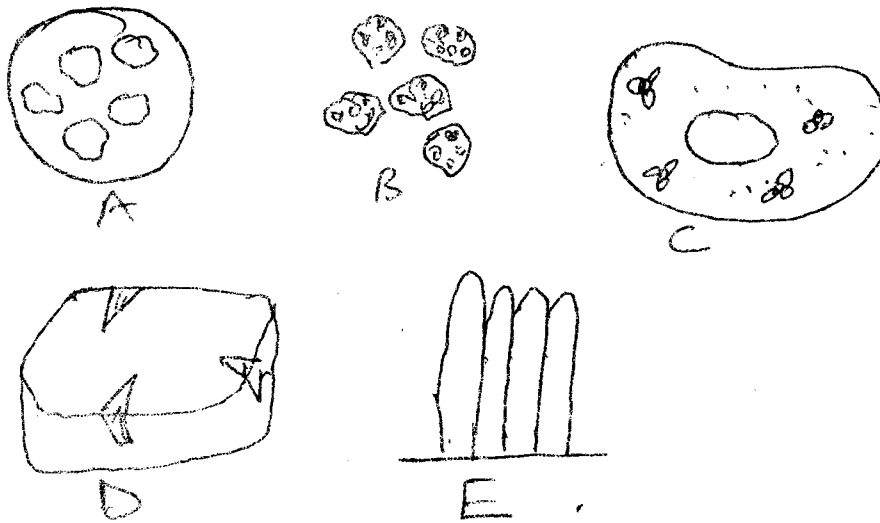
2. A form one student set up an experiment as shown below.



Equal amounts of soil and water were used.

- a) State two aims of the above experiment. (4mks)
- i) (4mks)
- ii) Identify the soils A B and C (6mks)
- A
- B
- C
- c) Name part X (2mks)
- e) What was the use of the material labeled Y. (2mks)
- d) Give five properties of the soil labeled C (10mks)
- i)
- ii)
- iii)
- iv)
- v)
3. Name three types of water found in the soil. (6mks)
- i)
- ii)

5. The diagram below shows different type of soil structures. Study them and answer the questions that follow.



a) Identify the structures

(10mks)

A

B

C

D

E

b) Name the structure that is affected by tillage and trampling.

(2mks)

6) Give the relative sizes of the following soil particles.

(6mks)

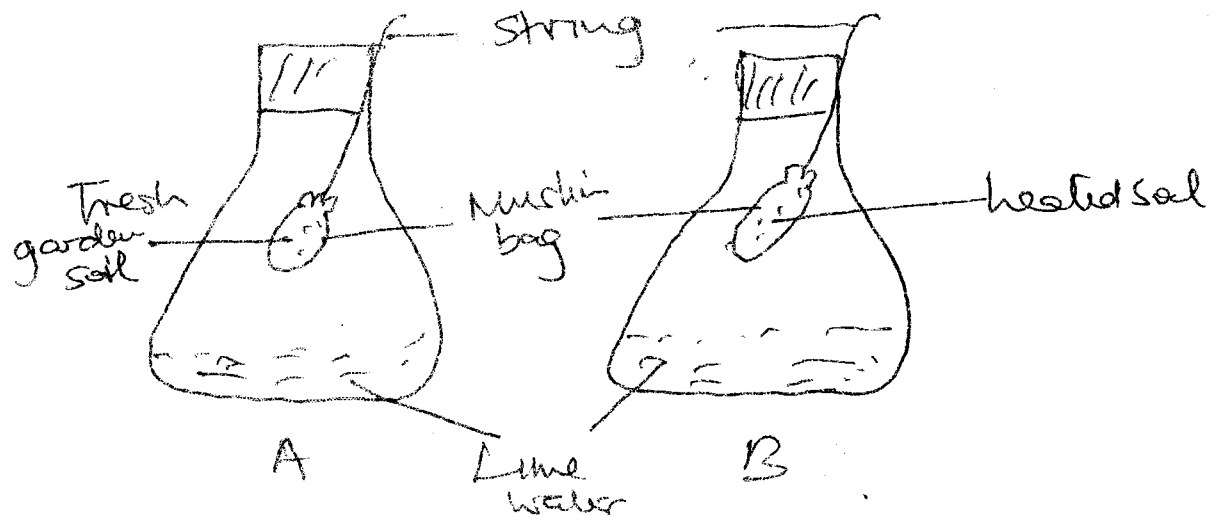
a) Sand

b) Silt

c) Clay

iii)

4. The diagram below shows experiments carried out on soil. Study the diagram and answer the questions that follow.



a) What was the aim of the experiment? (2mks)

b) What observation was made in A and B after one hour. (4mks)

A .

B

c) Explain the observation made in A (4mks)