

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

FORM 4 AGRICULTURE PAPER I. END OF TERM I EXAMINATION. 2015.

NAME: _____ CLASS: _____ ADM. NO: _____

Answer all questions in the spaces provided. (SECTION 'A' 30 MARKS)

1.State two agents of physical weathering. (2mks

i)

ii)

2a) Give two conditions that favour surface irrigation. (2mks

i)

ii)

b) Give two advantages of surface irrigation. (2mks

i)

ii)

3. List two factors that influence the depth of planting seeds of annual crops. (2mks

i)

ii)

4. State two factors outside the animal that influence the quality of farm yard manure. (2mks

i.

ii.

5. State two economic importance's of crop pests. (2mks

i)

ii)

6. Differentiate between pomoculture and olericulture as used in crop production. (1mk

7. State two ways by which biological agents bring about soil formation. (2mks

i)

ii)

8. State two advantages of adding organic matter to sandy soils. (2mks

i)

ii)

9. State the one importance of the following practices in crop production. (2mks

a) Rogueing

b) Layering

10. State two importance of using certified seeds for planting. (2mks

i)

ii)

11. What is the importance of land clearing as a method of land reclamation? (1mk

12. Outline two advantages of multiple stem pruning over single stem pruning in coffee. (2mks

i)

ii)

13. Name any two practices carried out on seeds before planting. (2mks

i)

ii)

14a) Give one precaution taken when preparing tea stem cuttings for vegetative propagation. (1mk)

b) Give one advantage of using polythene sleeves in seedling establishment. (1mk)

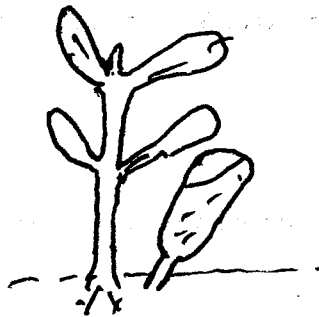
15. State two problems associated with land fragmentations. (2mks)

i)

ii)

SECTION 'B' 20 MARKS)

16. The diagram below represents an irrigation system use it to answer the questions that follow:-

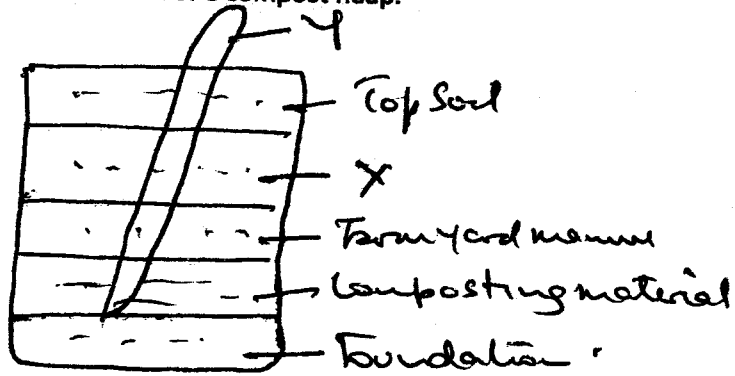


a) Identify the system of irrigation. (1mk)

b) State another method of carrying out the stem of irrigation above. (1mk)

c) Give two problems associated with this system of irrigation. (2mks)

17. Below is a cross section of a compost heap.



a) Name any material that makes the foundation. (1mk)

b) Give the role of each of the following in the heap

i) Top soil (1mk)

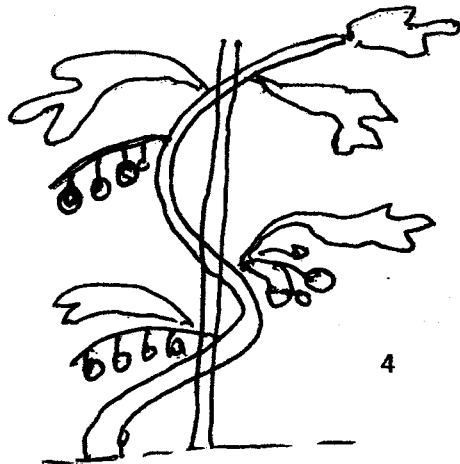
ii) Farm yard manure (1mk)

c) Name parts X and Y (2mks)

X _____

Y _____

18. The diagram below shows a tomato plant. Use it to answer the questions that follow.



SECTION 'c' (40 MKS)

20a) Outline the role of farm records in a farm. (10mks)

b) A farmer has a piece of land where he intends to keep 100 layers and grow maize; The farmer has Ksh 2,000/= The farmer decides to keep 100 layers. *Value from layers is ksh 25,000 while value of maize is ksh 20,000.*

i) What is the farmer's opportunity cost? (1mk)

ii) Under what condition does opportunity cost ^{exist} ~~experiment~~? (1mk)

iii) Under what two conditions is opportunity cost zero? (2mks)

i)

ii)

iv) Name the three basic economic concepts (3mks)

i)

ii)

iii)

a) Identify the management practice has been carried out on the plant. (1mk

b) State two importance of the practice in (a) above (2mks

c) Name two insect pests of tomatoes (32mks

i)

ii)

19. A farmer was advised to apply 120kg of N per hectare. If the farmer has sulphate of ammonia (20%N),

a) Calculate the amount of SA to be applied. (2mks

b) State two methods that farmer would use to apply the fertilizer. (2mks

i)

ii)

c) State two uses of lime when applied to the above soil; (2mks

i)

ii)

v) State three uses of a title deed to a farmer. (3mks

i)

ii)

iii)

21a) Describe cultural methods used to control crop pests. (10mks

b) Describe five factors determine quality of Hay. (5mks

c) Outline five qualities of good silage. (5mks