NAME…………………………………………………………………………………….

INDEX NO……………………………………… CLASS………………………… DATE……………………….

GATITU DAY MIXED SEC SCHOOL

AGRICULTURE PP1

TRIAL 2 EXAM

TIME: 2HRS

**INSTRUCTIONS**

Answer **all** the questions in section A, B and C and answer any **two** questions in C.

**SECTION A (30MKS)**

1. List three limitations of intensive farming system. (1.5mks)

2. a) What is budding? (1/2 mk)

b) State three methods of budding used in crop production. (1 ½ mks)

3. State four reasons that may necessitate settlement and resettlement. (2mks)

4. Define the following terms as used in crop production.

a) Gapping (1mk)

b) Rogueing (1mk)

5. Why is it important to consider previous cropping when locating a nursery bed? (1mk)

6. Give two ways in which check dams control soil erosion. (1mk)

7. State six characteristics of a productive soil. (3mks)

8. State the ionic forms in which Nitrogen is absorbed by plants. (1mk)

9. Give two harmful effects of Micro- organisms in crop –production (1mk)

10. State two diseases of the inflorescence that attack sorghum. (1mk)

11. Give two reasons why sorghum should be harvested for making silage just before flowering stage. (1mk)

12. State two effects of low temperature in crop production. (1mk)

13. State four structural methods of soil erosion control. (2mks)

14. Give a reason for carrying out each of the following management practices in a vegetable nursery.

i) Pricking out (1/2 mk)

ii) Rogueing (1/2 mk)

15. Outline two ways of controlling Blossom –end rot disease in tomato production. (1mk)

16. State four physical methods of pest control. (2mks)

17. Write three reasons of top dressing a pasture land. (1 ½ mk)

18. State four symptoms of viral attack in crop production (2mks)

19. Explain the concept of opportunity cost giving an example relevant to agricultural production. (1mk)

20. State four factors which may affect the quality of hay. (2mks)

**SECTION B (20MKS)**

21. The diagram below show the arrangement of aggregates in the soil. Study them carefully and answer the questions that follow.

a) Identify the above types of soil structure. (1mk)

A

B

b) State the layer in the soil profile where the above structures are found. (1mk)

A

B

c) State two ways in which the knowledge of the above features would be of benefit to a farmer. (2mks)

22. Below is an illustration showing methods of soil and water conservation.

a) Identify methods (2mks)

i) J

ii) K

b) Identify parts (2mks)

i) L-

ii) M-

c) State the importance of L and M in structure K (2mks)

i) L-

ii)M-

23. The diagrams below show particles of two sorghum varieties. Study the diagrams and answer the questions that follow.

ii) Identify the varieties L and M of the crop shown above. (1mk)

iii) Which of the two varieties of sorghum is least likely to be damaged birds? (1mk)

iv) Give a reason for your answers in (iii) above (1mk)

24. a) Calculate the amount of P2 O5 contained in 500kg of a compound fertilizer of the ratio of 25: 10: 10, show your working. (2mks)

b) What do the figures 25: 10: 10, on a fertilizer bag represent. (2mks)

c) Calculate the quantity of filler material in (b) above. (1mk)

25. Give any two preparations carried out one farm produce before storage. (2mks)

**SECTION C (40MKS)**

**ANSWER ANY TWO QUESTIONS**

26. Describe the field production of nappier (elephant) grass under the following subheadings:

i) Seedbed preparation (5mks)

ii) Planting (3mks)

iii) Utilization (2mks)

b) Explain how various practices carried out in the field help to control diseases. (10mks)

27. a) Describe the effects of weeds in crop production . (6mkS)

b) Describe the procedure of harvesting sugar-cane (4mks)

c) Explain the precautions that should be observed during the harvesting of sugar-cane. (4mks)

d) Describe six steps followed in land adjudication. (6mks)

28. a) State and explain the various land tenure systems practiced in Kenya. (10mks)

b) State and explain five advantages of pruning in crop production (10mks)