**NAME: ………………………………………. ADM NO: ………….. CLASS: ……………….**

**443/1**

**AGRICULTURE PAPER 1**

**FORM THREE**

**END OF TERM 2 EXAM**

**INSTRUCTIONS:**

This paper consists of 3 sections A, B and C.

Answer all questions in section A and B and two questions from section C.

All answers must be written in the spaces provided after each question.

**SECTION A( 30 MARKS)**

1. Name two factors which influence soil colour. (1 mk)

2. State two factors that may induce forking in carrots. (1 mk)

3. State four methods of breaking seed dormancy. (2 mks)

4. Give four reasons why bush burning is discouraged during land preparation. (2 mks)

5. Which four soil properties are influenced by soil texture? (2 mks)

6. State four ways on how a farmer prevents loss of soil fertility. (2 mks)

7. State two properties of potassic fertilizers. (1 mk)

8. Calculate the amount of K2O that is contained in 400kg of a compound fertilizer 25:10:5 (show your working) (2 mks)

9. State four factors that determine the stage a which a crop is harvested. (2 mks)

10. Outline four problems associated with farm yard manure. (2 mks)

11. Differentiate between Olericulture and pomoculture as used in crop production. (1 mk)

12. State three ways by which biological agents can enhance the process of soil formation.(1 ½ mks)

13. State four advantages of drip irrigation. (2 mks)

14. State four advantages of adding organic manure to a sandy soil. (2 mks)

15. Give four reasons for using certified seeds for planting. (2 mks)

16. Give four reasons for planting crops at the correct spacing. (2 mks)

17. List three physical weathering agents in the soil formation process. (1 ½ mks)

18. Give two conditions of the land which may make it necessary to carry out reclamation practices. (1 mk)

**SECTION B: (20 MARKS)**

19. The diagram below illustrates a method of crop propagation.

(a) Identify the method of propagation. (1 mk)

(b) Name one crop propagated through the method. (1 mk)

(c) State three advantages of the above method. (3 mks)

20. The diagram below shows a method o compost preparation.

(a) Identify the method. (1 mk)

(b) State two characteristics of a good site for preparing compost manure. (2 mks)

(c) State two factors that determine time the manure would be ready for use in the field. (2 mks)

21. The diagrams labeled A1, A2, A3 and B below illustrate materials and methods of vegetative

propagation. Study them and answer the questions that follow.

(a) Name the parts labeled A1 and A2. (2 mks)

A1 ………………………………………..

A2 ………………………………………..

(b) Name the methods of propagation illustrated in A3 and B. (2 mks)

A3 ………………………………………..

B ………………………………………….

(c) Name the practice used in preparing the seed potato for planting. (1 mk)

**SECTION C: (40 MARKS)**

22. (a) Discuss the importance of irrigation in farming. (12 mks)

(b) Explain the factors that influence the type of irrigation to be used in a farm. (8 mks)

23. (a) State and explain six importance of drainage as a land reclamation method. (12 mks)

(b) Describe the agricultural practices which will lead to water pollution. (8 mks)

24. (a) State the importance of water to plants. (4 mks)

(b) What is the importance of treating water before use. (4 mks)

(c) Describe the process of water treatment using a chemical treatment plant. (2 mks)