

Name: _____ Class: _____

443/1

AGRICULTURE

FORM 2

END OF YEAR EXAMINATION 2017

TIME: 2 HOURS

Instructions

Read the instructions for each question carefully.

Answer all questions in section A and B, in the provided spaces on the question paper ONLY.

Answer ONLY ONE question in section C, in the provided space after question 26.

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SECTION A: (30 MARKS)

Answer All questions in this section in the spaces provided

1. State two ways in which Agriculture contributes directly to the development of industries. (1mk)

2. Give a reason why tree nursery should be sited in a well sheltered place. (1mk)

3. Give that maize crop is planted at a spacing of 80cm x25 cm, calculate the plant population in 1ha of land if two maize seeds are planted per hole. Show your working. (2kms)

4. List four methods of farming. (2mks)

5. List three physical weathering agents in the soil formation process. (1½ mks)

6. Give four advantages of crop rotation.(2mks)

7. State two factors that would make a farmer choose surface irrigation method (1mk)

8. Name **three** ways by which a farmer would add organic matter to the soil. (1 ½ mks)

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9. Give four factors that would determine the stage at which a crop is harvested. (4mks)

10. Name two methods which can be used to detect nutrient deficiency in a crop field. (2mks)

11.

1. Give four reasons for treating water for use on the farm (2mks)

2. State four farming activities which may cause pollution to water sources (2mks)

12.

a) Name **three** recommendation practices that should be carried out when clearing the bush during land preparation. (1½ mks)

b) Name **four** factors that determine the depth of ploughing. (2mks)

13. Give **four** types of farm records kept by a poultry farmer. (2mks)

14. State **four** methods of breaking seed dormancy in some crops before planting (2mks)

15. Name **four** advantage of row planting. (2mks)

16. Give **three** characteristics of a good vegetable crop seedling. (1½ mks)

SECTION B :(30 MARKS)

Answer ALL questions in this section in the spaces provided in this section

17. The diagrams A1,A2,A3 and B below illustrate materials and methods of vegetative propagation. Study them and answer the questions that follow:

1. Name the parts labeled A1 and A2,

A1 _____ (½ mk)

A2 _____ (1/2 mk)

2. Name the methods of propagation illustrated in diagrams A3 andB. (3mks)

A3 _____

B: _____

18. The diagram below shows a pest and the damaged crop. Study it carefully and answer the questions that follow.

a) Identify the crop pest illustrated above. (½ mk)

b) Give two ways of controlling the pest. (2mks)

19. The table below shows PH values of different soil samples. Study it and answer the questions that follow

Soil sample	PH value
S1	3
S2	4
S3	5
S4	6
S5	7
S6	8
S7	9
S8	10

1. Which soil sample has the highest acidity? (1mk)

2. State two ways in which the PH value of sample S8 can be lowered (2mks)

3. Which of the above soil sample is suitable for growing onions (½ mks)

20. Below is an illustration of a camel. Study it and answer the questions below.

a) Identify the camel species illustrated above. (1mk)

b) Name two products that farmers obtain from the camel species illustrated above. (1mk)

c) Give two reasons why the camel species illustrated above is able to survive in its natural habitat. (2mks)

21. Below is a diagram of a knapsack sprayer. Study it carefully and answer the questions that follow.

a) Name the parts labeled N,P,Q and R. (2mks)

N _____
P _____
Q _____
R _____

b) State one function of the part labeled S (1mk)

c) Differentiate between a bastard file and a rasp file. (2mks)

22.

a) Name two methods of soil sampling (2mks)

b) Give two precautions the farmer should take when collecting a soil sample. (2mks)

c) Describe how to prepare a soil sample before taking it to the laboratory for testing. (2mks)

23.

a) Give two reasons for proper nutrition in Livestock production. (2mks)

b) State three factors that determine the amount of water required by an animal. (3mks)

SECTION C: (40 MARKS)

Answer ALL questions in this section in the spaces provided

24. Describe the production of tomatoes under the following sub-topics:

a) Seedbed preparation (3mks)

b) Transplanting of seedlings (6mks)

c) State three factors to consider when grading tomatoes for fresh market. (3mks)

25.

- a) Describe five reasons why it is important to maintain good health in livestock. (5mks)

- b) Describe the life cycle of a one host tick. (5mks)

- c) Give five methods of controlling roundworms in a farm.(5mks)

26.

- a) Describe five advantage of mulching. (5mks)

- b) Name five factors and describe ways in which they influence crop production in Agriculture.(5mks)

c) i. What is the function of each of the following ingredients in the preparation of compost manure?

a) Wood ash (1mk)

b) Top soil (1mk)

ii. Why is it advisable that a long sharp pointed stick is driven into a compost heap at an angle when preparing compost manure? (1mk)

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