

Name Index No.

SchoolCandidate's signature

Date

443/1

AGRICULTURE
Paper 1

July 2017

Time 2 hours

FORM FOUR END OF SECOND TERM EXAM
Kenya Certificate of Secondary Education
AGRICULTURE
Paper - 443/1
July 2017
Time: 2 hours

INSTRUCTIONS TO CANDIDATES

- Write your name and Index number in the spaces provided above.
- Sign and write the date of the examination in the spaces above.
- This paper consists of THREE sections A, B and C.
- Answer ALL questions in section A and section B and Two questions in section C.
- All answers must be written in this booklet.

This paper consists of 8 printed pages

Candidates should check the question paper to ensure that all the printed pages are printed as indicated and no questions are missing.

SECTION A (30 marks)

Answer ALL questions in this section on the spaces provided.

1. State two characteristics of plantation farming. (1 mark)

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2. State three ways by which plant nutrients may be lost from the soil. (1½ marks)

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3. Give four reasons why most farmer do not use green manure in crop production. (2 marks)

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4. State four practices which help in achieving minimum tillage. (2 marks)

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5. State four ways of improving labour productivity. (2 marks)

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6. Give two policies that the government has instituted in order to regulate importation of agricultural goods. (1 mark)

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7. Name four physical forces of soil formation. (2 marks)

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8. Give three soil factors that influence soil productivity (3 marks)

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9. State two ways of overcoming water logging in crop production. (1 mark)

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10. Other than drainage, name two other methods of land reclamation in Kenya. (1 mark)

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11. Give a reason why a nursery bed should not be more than one meter wide. (1 mark)

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12. Give four examples of land reform programs in Kenya. (2 marks)

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13. State the meaning of each of the following terms as used in agricultural marketing.

i) Monopolistic competition (1 mark)

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ii) Oligopoly (1 mark)

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iii) Monopsony (1 mark)

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14. State two classes of herbicides based on formulation. (1 mark)

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15. What is legislative method of pest control? (1 mark)

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16. List four sites on which agroforestry trees can be established on a farm. (2 marks)

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17. State four financial documents that should be kept on a farm (2 marks)

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18. Give three disadvantages of using seed as planting material (1½ marks)

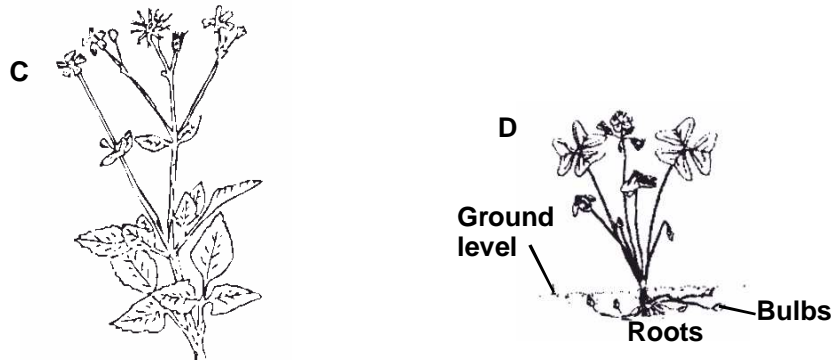
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SECTION B (20 marks)

19. The diagram below illustrate common weeds in arable land. Study them and answer the questions that follow.



a) Identify the weed labelled C and D. (2 marks)

C

D

b) Classify the weed labelled D according to plant morphology. (1 mark)

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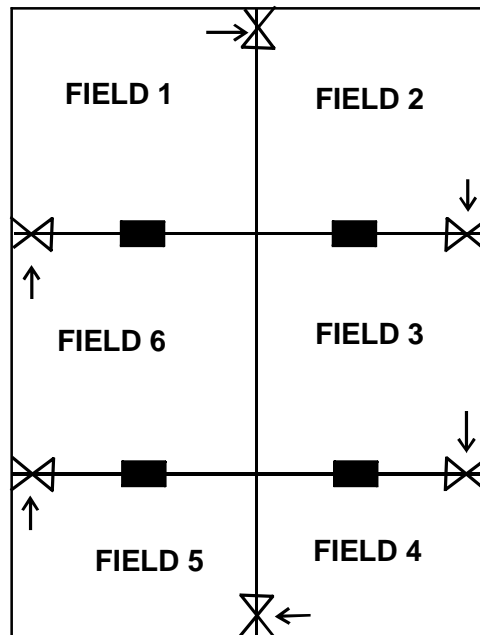
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c) Give one reason why it would be difficult to control weed labelled D. (1 mark)

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20. The diagram below illustrates a grazing system. Study it carefully and answer the questions that follow.



a) Identify the grazing system illustrated above. (1 mark)

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b) State the advantages of the grazing system illustrated above. (2 marks)

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c) Give one factor that determine the nutrient content of hay. (1 mark)

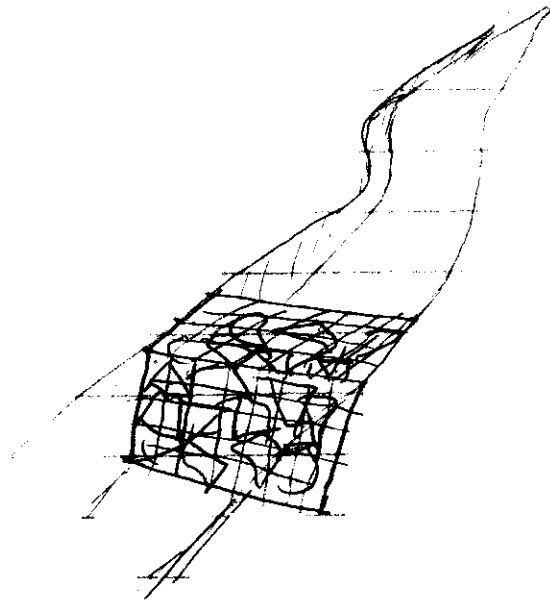
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21. The following information was extracted from Makueni Farm Records for the financial year ending on 30th June 2009. Study it and prepare a profit and loss account for the farm. (5 marks)

- Rent received	sh 10,000
- Egg sale	sh 60,000
- Repair of tractor	sh 30,000
- Opening valuation	sh 80,000
- Interest on bank loan	sh 20,000
- Tax paid	sh 40,000
- Closing valuation	sh 90,000
- Purchase of farm inputs	sh 90,000
- Debts receivable from farmers co-op society	sh 100,000
- Maize sales	sh 50,000

The illustration below shows a structure used for controlling soil erosion. Study it carefully and answer the questions that follow.



a) Identify the structure. (1 mark)

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b) Explain two ways in which the structure helps to control soil erosion. (2 marks)

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c) State four factors that may lead to the type of soil erosion shown above. (4 marks)

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SECTION C 40 marks)

Answer two questions from this section. All questions carry equal marks.

23. a) Explain five ways in which the Kenyan Government can improved maize production to ensure food security in the country. (10 marks)

b) Describe how water is treated to remove soil impurities. (5 marks)

c) Give a reason for each of the farm records kept in the farm (5 marks)

24. a) Describe production of cabbages under the following subheadings.

i) Seedbed preparation (3 marks)

ii) Transplanting (8 marks)

c) Describe how stem cuttings for tea planting are prepared. (9 marks)

