

Name: Adm No.....

School: Candidate's sign

Class.....

AGRICULTURE 443/1

FEB/MARCH 2022

TIME: 2 HOURS

MOI HIGH SCHOOL-KABARAK

FORM THREE MOKASA I MOCK

Kenya Certificate of Secondary Education (K.C.S.E.)

Agriculture

Paper 1

INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three sections A, B and C.
- Answer **all** the questions in section A and B.
- Answer any **two** questions in section C.
- All answers should be written in the spaces provided.
- This paper consists of 11 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer all the questions in English.

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
B	18-21	20	
C		20	
		20	
	TOTAL SCORE	90	

SECTION A (30 MKS)

Answer all the questions in this section.

1. Give **three** characteristics of shifting cultivation. (1¹/₂mks)

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2. Name **three** forms of horticulture practiced in Kenya. (1¹/₂mks)

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3. State **two** roles of agriculture in the development of industries. (1mk)

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4. Give **four** effects of covid-19 on agricultural production. (2mks)

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5. Outline **three** harmful effects of poor soil aeration to the growth of crops. (1¹/₂mks)

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6. Give **three** benefits of a good soil structure in crop production. (1¹/₂mks)

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7. a. Give **four** factors that determine the depth of ploughing in seedbed preparation. (2mks)

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b. List **three** tertiary operations that may be carried out on a seedbed. (1¹/₂mks)

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8. State **four** factors that a farmer should consider when selecting materials for vegetative propagation. (2mks)

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9. Give **four** factors that determine the spacing of a crop. (2mks)

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10. Name **two** types of layering. (1mks)

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11. a. State **two** ways in which squirrels cause damage to crops. (1mks)

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b. Define the term "integrated pest management". (1mk)

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12. a. Give **two** disadvantages of using a black polythene sheet to mulch crops. (1mk)

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b. Outline **two** reasons for earthing up Irish potatoes. (1mks)

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13. State **three** causes of blossom end rot in tomatoes. (1¹/₂mks)

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14. Why is it not advisable to use manure in carrot production? (1¹/₂mk)

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15. State **four** cultural methods of controlling weeds in a vegetable field. (2mks)

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16. Give **four** disadvantages of using plastic pipes for conveyance of irrigation water. (2mks)

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17. a. State **three** effects of excessive application of nitrogenous fertilisers on a crop. (1¹/₂mks)

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b. Give **two** reasons why phosphatic fertilisers are applied at planting time. (1mk)

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SECTION B (20MKS)

Answer all the questions in this section.

18. The diagram below shows a method of crop propagation. Study it and answer the questions that follows.



a. Identify the method above. (1mk)

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b. Name **two** crops that can be propagated using this method. (2mks)

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c. State **two** advantages of using this method in crop propagation. (2mks)

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19. The diagram below shows a weed.



a. Identify the weed illustrated above. (1mk)

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b. Using features on the diagram, give **two** reasons why it is difficult to eradicate the above weed. (2mks)

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c. State **two** ways in which the weed is economically important. (2mks)

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20. 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

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

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b. Which soil sample has the lowest alkalinity. (1mk)

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c. State **two** ways in which the PH value of sample 3 can be raised. (2mks)

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d. Which of the soil sample is suitable for tea production? (1mk)

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21. The diagram below shows the crop pest. Study them and answer the following questions.



A



B

a. Identify the pest in the diagrams labelled A and B. (1mk)

A.....

B.....

b. At what stage of maize production does each pest damage the crop. (2mks)

A.....

B.....

c. Give **one** way of controlling each of the pests. (2mks)

A.....

B.....

SECTION C 40MKS

Answer any two questions in this section.

- 22. a. Explain **five** ways in which government policy improves agricultural production. (5mks)
- b. Describe field production of tomatoes under the following sub headings
 - i. Transplanting. (5mks)
 - ii. Field management practices. (5mks)
- c. State **five** entries that can be made on cattle breeding record. (5mks)
- 23. a. Explain **six** effects of land fragmentation. (6mks)
- b. Explain **eight** cultural methods of pest control. (8mks)
- c. Describe water control in paddy rice. (6mks)
- 24. a. Explain **seven** factors that contribute to the competitive ability of weeds. (7mks)
- b. Explain **five** farming practices which help to conserve soil in the farm. (5mks)
- c. Describe **four** management practices that should be carried on a vegetable nursery after sowing seeds until seedlings are ready for transplanting. (4mks)
- d. Describe the process of filling the pit during the making of compost manure. (4mks)

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