

443/1

AGRICULTURE

(Theory)

Mar. 2022 – 2 hours

Paper 1



415

Name Index Number

Candidate's Signature Date

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 sections **A** and **B**.
- Answer any **two** questions in section **C**.
- All answers should be written in the spaces provided.
- Non-programmable silent electronic calculators may be used.
- This paper consists of 16 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 the questions in English.**

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1-15	30	
B	16-19	20	
C		20	
		20	
Total Score		90	

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SECTION A (30 marks)

Answer *all* the questions in this section in the spaces provided.

1. State **two** ways in which the foreign exchange earned from agriculture is important to Kenya. (1 mark)

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2. State **four** effects of excessive nitrogenous fertiliser application on tomatoes. (2 marks)

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3. State **four** ways in which burning during clearing of land reduces soil fertility. (2 marks)

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4. State **four** ways in which water pollution caused by farming activities can be controlled. (2 marks)

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5. What is meant by the term preference and choice as used in agricultural economics? (2 marks)

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6. State **four** disadvantages of shifting cultivation. (2 marks)

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7. Name **four** categories of nursery beds. (2 marks)

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8. (a) What is meant by the term conveyance of water? (1 mark)

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(b) State **two** ways of conveying water. (1 mark)

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9. (a) What is meant by the term land tenure reform? (1 mark)

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(b) State **four** advantages of land registration. (2 marks)

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10. Name **four** types of landslides. (2 marks)

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11. State **four** advantages of small scale farming in Kenya. (2 marks)

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12. State **four** disadvantages of stall feeding. (2 marks)

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13. Give **four** reasons why livestock farmers prepare silage. (2 marks)

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14. State **four** reasons for carrying out minimum tillage. (2 marks)

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15. Name **four** financial documents used in farm accounting. (2 marks)

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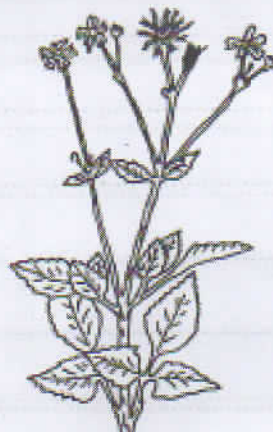
SECTION B (20 marks)

Answer all the questions in this section in the spaces provided.

16. The diagrams below show certain weeds.



E



F



G

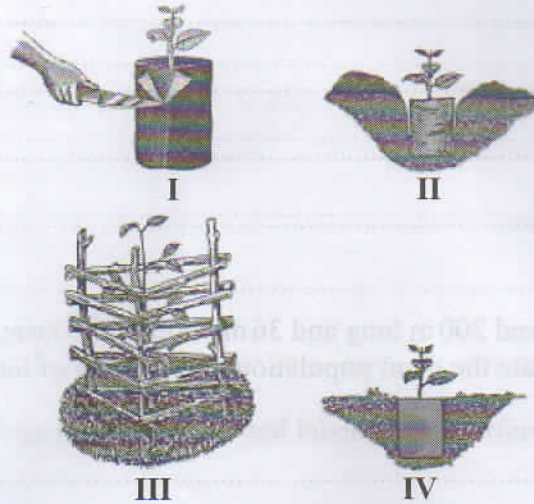
(a) Identify the weeds labelled **F** and **G**.

F (1 mark)

G (1 mark)



19. The diagram below shows a practice in agroforestry.



(a) Identify the practice. (1 mark)

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(b) State the importance of the activity labelled:

I (1 mark)

IV (1 mark)

(c) Why was the soil separated as shown in the activity labelled II? (1 mark)

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(d) State the **main** precaution observed when covering the seedling as illustrated in III. (1 mark)

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SECTION C (40 marks)

Answer any **two** questions from this section in the spaces provided after question 22.

20. (a) Describe **seven** ways in which a farm manager can provide incentives to increase the productivity of the farm workers. (7 marks)
- (b) Describe Blossom End Rot disease in tomatoes under each of the following sub-headings:
- (i) symptoms (1 mark)
- (ii) causes (3 marks)
- (iii) control measures. (3 marks)
- (c) Describe how a farmer should handle a bean crop from the time it is harvested until the dry seed is ready for storage. (6 marks)
21. (a) Give **two** effects of low temperature on crop growth. (2 marks)
- (b) Explain **four** aspects of rainfall that a farmer should consider when choosing a crop to grow. (8 marks)
- (c) Describe **five** types of layering used by farmers to propagate crops. (5 marks)
- (d) Give **five** functions of agricultural marketing boards in Kenya. (5 marks)
22. (a) Describe rice production under **each** of the following sub-headings:
- (i) land preparation (3 marks)
- (ii) water control (3 marks)
- (iii) weed control. (2 marks)
- (b) Describe millet production under each of the following sub-headings:
- (i) seedbed preparation (2 marks)
- (ii) planting (2 marks)
- (iii) harvesting. (3 marks)



