

Name.....Index No.....

Candidates' Signature.....Date.....

FORM 4

AGRICULTURE

PAPER 1

TIME: 2 HOURS

Instructions to Candidates

1. This paper consists of three sections A, B and C.
2. Answer all the questions in sections A and B and two questions in section C.
3. Check to ascertain that all the pages are printed as indicated and that no questions are missing.

For Examiners Use Only

| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATES SCORE |
|---------|-------------|---------------|------------------|
| A | 1 - 18 | 30 | |
| B | 19 - 22 | 20 | |
| C | | 20 | |
| | | 20 | |
| | TOTAL SCORE | 90 | |

SECTION A: (30 MARKS)

Answer all questions in this section in the spaces provided.

1. What is agroforestry? (1 mark)

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2. Give two roles of agriculture in industrial growth. (1 mark)

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3. Differentiate between intercropping and mixed cropping. (1 mark)

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4. State two importance of flooding water in the field of growing rice (1mark)

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5. List four reasons for using certified planting materials (2marks)

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6. State four aims of land settlement programmes in Kenya (2marks)

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7. State two causes of forking in carrots (1mark)

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8. State four disadvantages of using herbicides (2marks)

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9. Name two common diseases of cabbages (1mark)

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10. State two methods used in frame formation in tea production (2marks)

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11. State two importance of living organisms in soil (1mark)

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12. State four factors that determine crop population in maize field (2marks)

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13. Outline four factors considered when designing a crop rotation programme. (2 marks)

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14. State four factors influencing soil erosion. (2 marks)

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15. Outline four conditions that necessitate irrigation. (2 marks)

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16. Name four variable inputs in a maize production enterprise. (2 marks)

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17. State four factors that affect the quality of hay. (2 marks)

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18. Outline two reasons why a legume should be included when establishing forage crops. (1 mark)

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19. State two advantages of tillage as a method of weed control. (1 mark)

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20. Name three environmental factors affecting the effectiveness of herbicide. (3 marks)

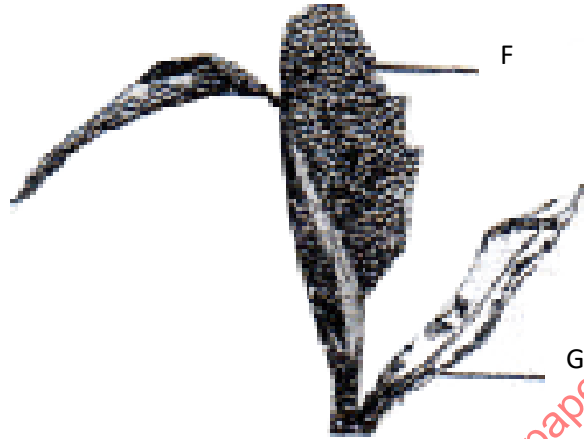
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SECTION B: (20 MARKS)

Answer all the questions in the spaces provided.

21. The diagram below illustrates an arable field crop. Carefully study the diagram and answer the questions that follow.



a) Identify the field crop. (1 mark)

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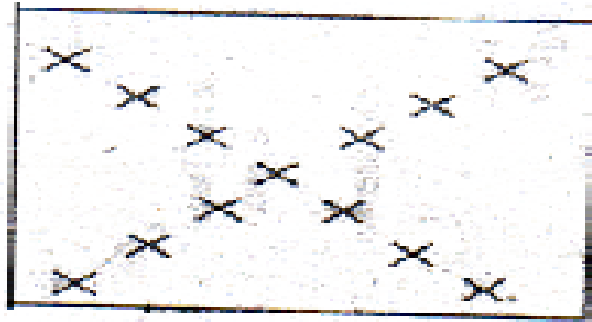
b) Name two common diseases that affect parts F and G. (2 marks)

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c) List two cultural methods of controlling the diseases named in (b) above. (2marks)

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22. The diagram below shows a method of soil sampling.



a). Identify the method.

(1 mark)

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b) Mention four areas to avoid when sampling soil.

(2 marks)

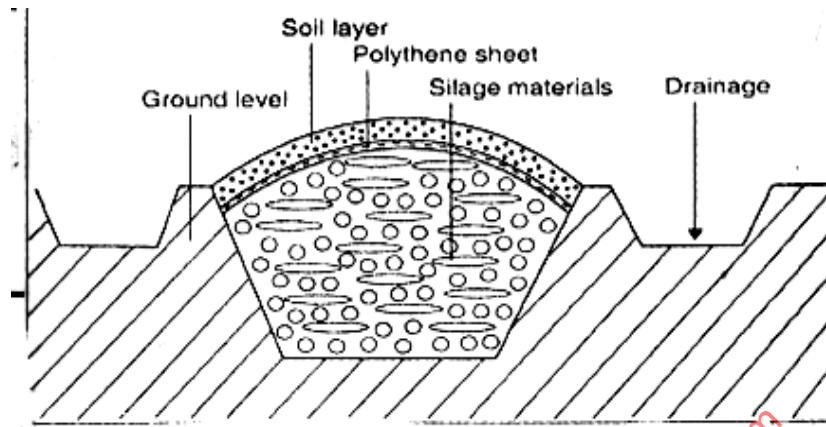
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c) Give two reasons for soil testing.

(2 marks)

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23. The diagram below show a method of forage preservation



(a) Identify the structure illustrated above..... (1mark)

(b) Give the role of each of the following in the above structure

(a) Polythene sheets (1 mark)

(b) Drainage. (1 mark)

(c) State two other methods of forage conservation. (2 marks)

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24. The diagram below illustrates some weeds. Study them and answer the questions that follows.



(a) Identify the weeds.

(2 marks)

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(b) On the basis of plant morphology , classify the weed labelled L.

(1 mark)

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(c) Give two harmful effects of the weed labelled M.

(2 marks)

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SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided after question 27.

25. (i) Explain five structural structures used to control soil erosion. (10 marks)
- (ii) State and explain five factors which may influence the spacing of crops. (10 marks)
26. (a) Describe ten cultural methods used in controlling crop pests. (10 marks)
- (b) State and explain the various land tenure systems practiced in Kenya. (10 marks)
27. Discuss the production of napier grass under the following subheadings.
- (i) Seedbed preparation. (4 marks)
- (ii) Planting. (5 marks)
- (iii) Fertilizer application. (3 marks)
- (iv) Weed control. (3 marks)
- (v) Utilization. (5 marks)

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