

FORM FOUR CLUSTER KCSE MODEL 2

AGRICULTURE PAPER 1 QUESTIONS

SECTION A: (30 Marks)

1. State two ways in which Agriculture promotes industrialization in Kenya.
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2. a) Give two tertiary practices suitable for establishment of certain crops. (1mark)
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b) State two factors that lead to formation of hard pans in a farm. (1mark)
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3. a) State three reasons why proper soil aeration is important in crop farming. (1 ½ mark)
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b) State two farming practices that can improve soil aeration.(1mark)
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4. State three farming practices that can lead to loss of soil fertility.
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5. a) Give three methods that can be used to apply fertilizer in a crop field. (1 ½ marks)
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b) State three advantages of using tissue crop propagation. (1 ½ marks)
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6. State four functions of phosphorus in crops.
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7. Give three mechanical methods of weed control.
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8. Give two symptoms of blossom end-rot in tomatoes.
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9. Name three problems a farmer is likely to face when using credit as a source of capital.

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10. State three disadvantages of zero grazing.

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11. State three uses of marketing records.

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12. State three ways in which drainage can make water logged land productive.

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13. State three details of a cash book.

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14. Distinguish between intensive and extensive farming.

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15. State four factors that can reduce the number of secondary cultivations.

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16. Distinguish between pasture crop and forage crop.

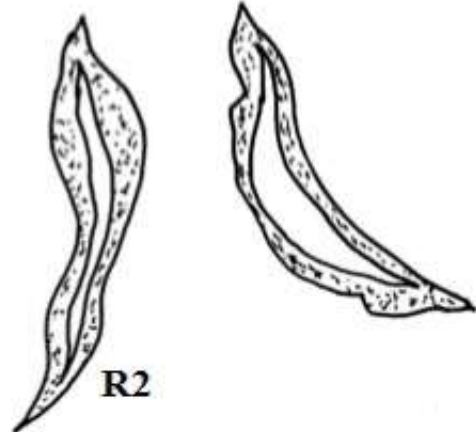
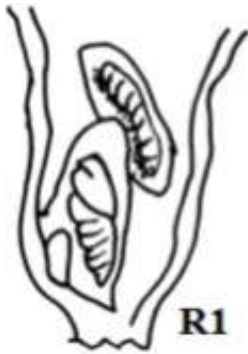
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17. Give four farming practices likely to improve soil and water conservation.

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SECTION B (20 Marks)

18. Study the illustrated pests and answer the questions that follow.



- a) Identify the pest illustrated in R1 ns R2.
- i) R1..... (1mark)
- ii) R2..... (1mark)
- b) Name one part of the plant attacked by pest.
- i) R1..... (½ mark)
- ii) R2... .. (½ mark)
- c) State the control measure of the pest named
- i) R1..... (1mark)
- ii) R2..... (1mark)

19. Study the illustration below and answer the questions that follow.

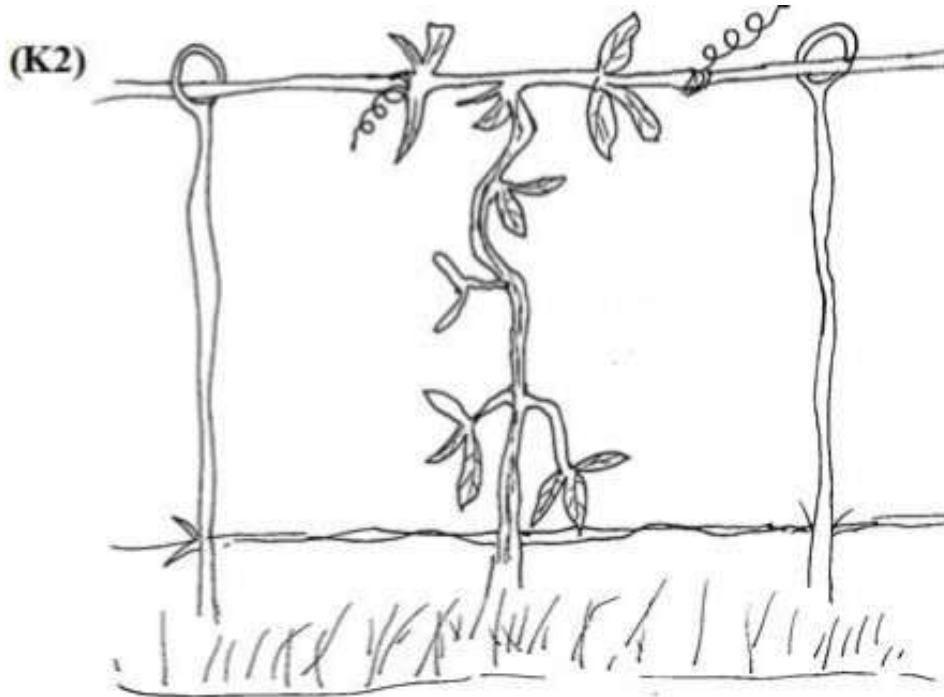


- a) i) Identify the method of pruning coffee illustrated in K1. (1mark)
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- ii) Name one other method of pruning coffee apart from the one illustrated. (1mark)
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iii) Explain how the pruning method illustrated in K1 is done. (4marks)

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b) Study the field practice in the diagram below and answer questions i) and ii)



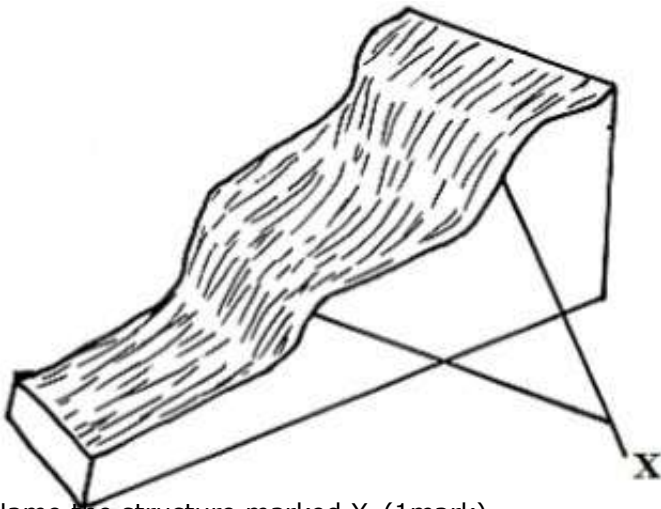
i) Name the field practice. (1mark)

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ii) Name two crops where the field practice is applied. (1mark)

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20. Study the method of soil and water conservation illustrated below and answer the questions that follow.



a) Name the structure marked X. (1mark)

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b) State two conditions that make the above method of soil and water conservation to be used. (2marks)

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c) Briefly explain how the above method of soil and water conservation facilitates effective soil and water conservation. (2marks)

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21. A farmer was advised by his area agricultural officer to plant his maize at the spacing of 75cm x 25cm in his plot measuring 30m x 20m.

a) Calculate the plant population if he is supposed to leave 40cm all-round the field uncultivated. (2marks)

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b) Calculate the actual seeds that germinated if only 75% of the planted seeds germinated. (2marks)

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SECTION C (40 Marks)

Answer two questions from this section in the spaces provided.

22. a) Explain the difference between complete and partial budget. (2marks)
 b) Describe the guidelines followed in preparing complete budget. (8marks)
 c) Describe the functions of the Agricultural marketing boards in Kenya. (10marks)

23. a) Explain five factors likely to lower the selectivity and effectiveness of herbicides. (10marks)
 b) Explain five field practices you would advise a farmer to carry out in order to control crop pests. (10marks)

24. a) Distinguish between land adjudication and land registration. (2marks)
b) Describe six problems associated with land fragmentation. (6marks)
c) Describe the chemical water treatment process. (7marks)
d) Describe the management activities you would carry out in Agroforestry trees. (5marks)