

NAME.....ADMISSION NUMBER.....

443/1

AGRICULTURE

FORM 3 PAPER 1

TIME:2 HOURS

INSTRUCTIONS TO CANDIDATES.

- Write your name and admission number in the spaces provided.
- Answer all questions in the spaces provided.
- This question paper consists of three sections A, B and C.
- Answer all the questions in sections A and B any two questions from section c.
- Answers should be written in the spaces provided.

For Examiner's use only

| Section | Question | Maximum score | Candidate,s score |
|----------------|-----------------|----------------------|--------------------------|
| A | 1-24 | 30 | |
| B | 25-28 | 20 | |
| C | | 20 | |
| | | 20 | |
| | Total score | 90 | |

This paper consists of 12 printed pages.

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

SECTION A(Answer all the questions)

1. Define the term Agriculture. 1mk
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2. Give the meaning of the following terms as used in Agricultural Production. 1½mks



- i. Olericulture.....
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 - ii. Pomoculture.....
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 - iii. Floriculture.....
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3. State **four** advantages of mixed farming. 2mks
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4. State **four** importance of Agriculture. 2mks
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5. Give **four** ways in which Health influence Agricultural production. 2mks
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6. State **three** negative effects of wind in crop production. 1½mks
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7. State **four** aspects of rainfall that influence agricultural production. 2mks
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8. Differentiate between the following terms. 3mks
i. Soil in “situ” and soil in deposition.



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ii. Soil structure and soil texture

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iii. Mixed cropping and mixed farming.

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9. Give **two** reasons why burning is discouraged as a method of clearing land .(1mk)

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10. State **three** tertiary operations that are carried out in the farm. 1½mks

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11. Give **three** importance of carrying out minimum tillage 1½mks

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12. State **four** importance of drainage in Agriculture 2mks

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13. Give **three** reasons as to why green manure is not commonly used. 1½mks

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14. State **three** basic concept of economics. 1½mks

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15. State **four** roles of Nitrogen in plants.2mks

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16. Outline **three** characteristics of Nitrogenous fertilizers. 1½mks

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17. State **three** importances of testing soil.1½mks

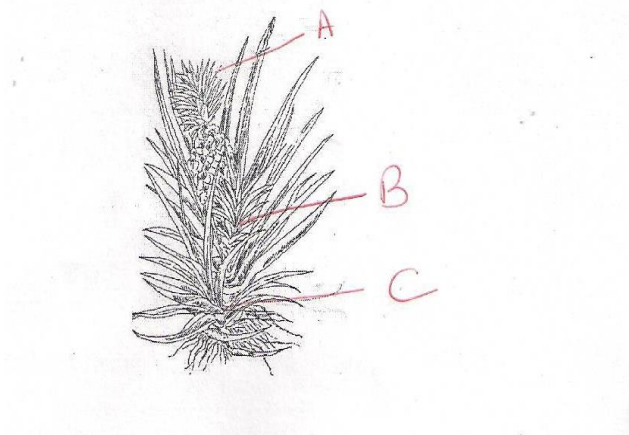
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18. Give **two** areas to be avoided when carrying out soil sampling. 1mk

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SECTION B(Answer all the questions in this section)

19. The following is a diagram of a certain crop. Study it carefully and answer the questions that follow.



I. Identify the crop 1mk



II. Label the parts labeled A ,B and C. 1½mks

A.....

B.....

C.....

III. Why is the part labeled A more preferred when propagating the above crop. 1mk

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IV. State **four** factors to be considered when selecting materials for planting. 2mks

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V. State **four** factors which determine the depth of planting. 2mks

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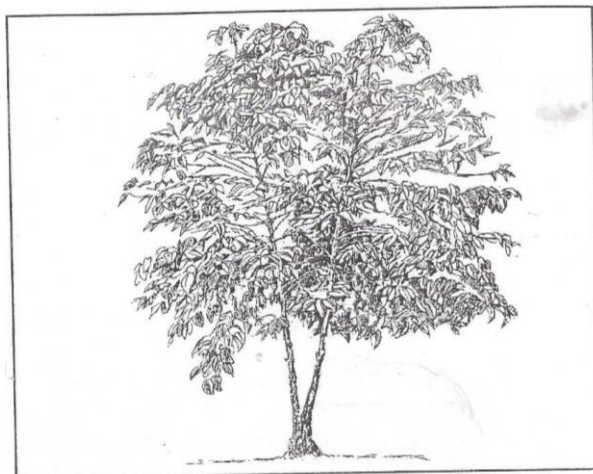
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20. The following is a pruned crop. Study it carefully and answer the questions that follows.



i. Identify the method of pruning. 1mk



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ii. Give **four** disadvantages of using the above method of pruning. 2mks

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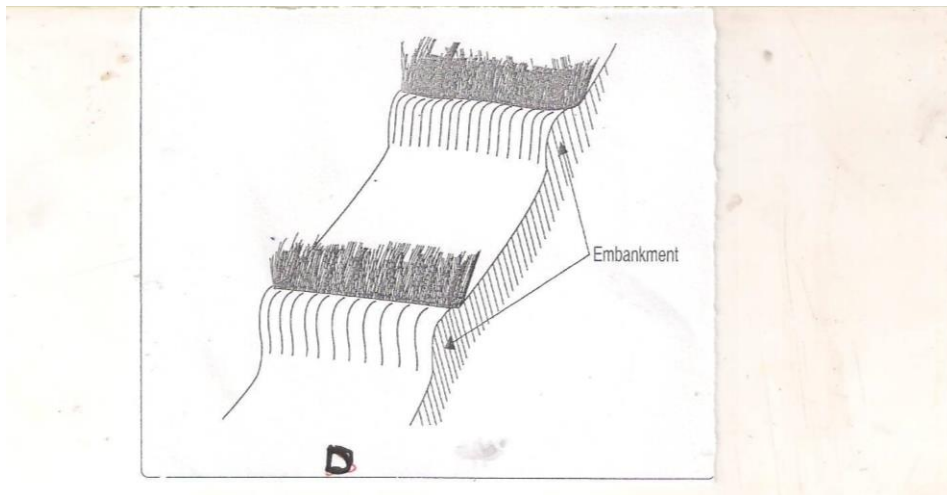
iii. Apart from the above give any other method of pruning coffee. 1mk

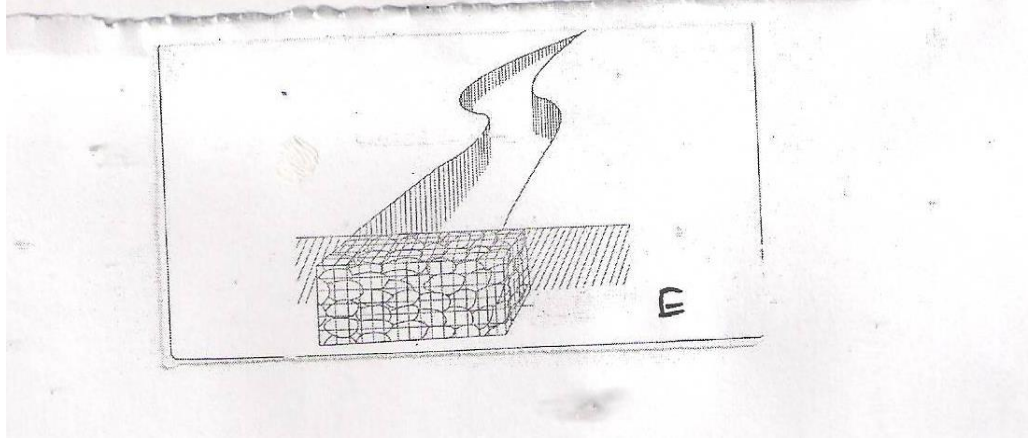
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iv. State **four** factors which determine the time of harvesting crops. 2mks

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21. The following are soil erosion control structures .Study the diagrams and answer the questions that follows.





i. Identify the structures 2mks

D-

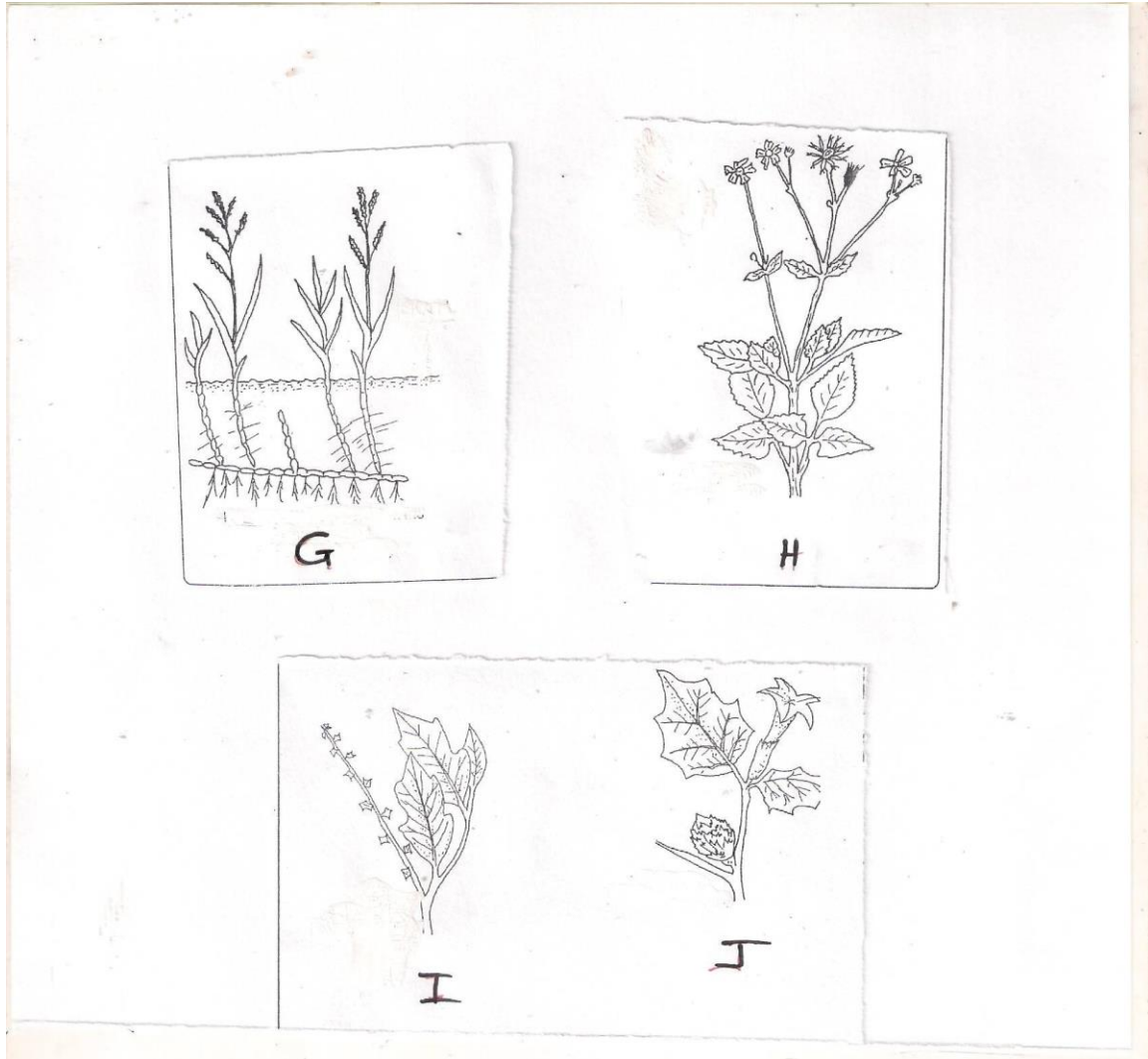
E-

ii. Give **two** ways in which structure E will control soil erosion. 1mks

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22. The following are diagrams of common weeds in Kenya.





i. Identify the above weeds. 2mks

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I.....

J.....

ii. What is the economic importance of weed 1½mks

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I



I.....
.....J
J.....
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SECTION C.

(Answer any TWO questions in this section.)

23. Describe the tomato production under the following the heading.

a. Ecological requirement 3mks

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b. Transplanting 5mks

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c. Field practices 5mks

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d. Diseases and their control. 4mks

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e. Harvesting 3mks

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24. (a) Describe the nursery management practices. 6mks

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(b) Outline **five** objectives of land reform. 5mks

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(c) State and explain **five** factors which determine the effectiveness of a herbicide. 5mks

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(d) State **four** precaution measures that one should take when using any chemical in the farm. 4mks

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25. (a) State **five** advantages of landlordism and tenancy system of land tenure. 5mks

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(b) State and explain **five** factors which determine the spacing of any crop. 5mks



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(c) State and explain **five** cultural methods of controlling soil erosion. (10mks)

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