

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

443/1

AGRICULTURE

TIME:2 HOURS

KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E.)

AGRICULTURE

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<br>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.
- .....
- .....
- .....
- ii. Soil structure and soil texture
- .....
- .....
- .....
- iii. Mixed cropping and mixed farming.
- .....
- .....
9. Give **two** reasons why burning is discouraged as a method of clearing land .(1mk)
- .....
- .....
- .....
10. State **three** tertiary operations that are carried out in the farm. 1½mks
- .....
- .....
- .....
- .....
11. Give **three** importance of carrying out minimum tillage 1½mks
- .....
- .....
- .....
- .....
12. State **four** importance of drainage in Agriculture 2mks
- .....
- .....
- .....
- .....
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

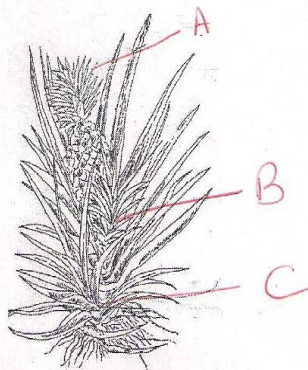
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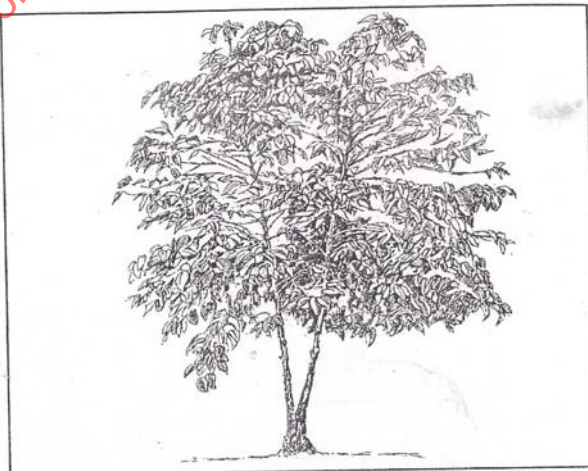
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**SECTION B(Answer all the questions in this section)**

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

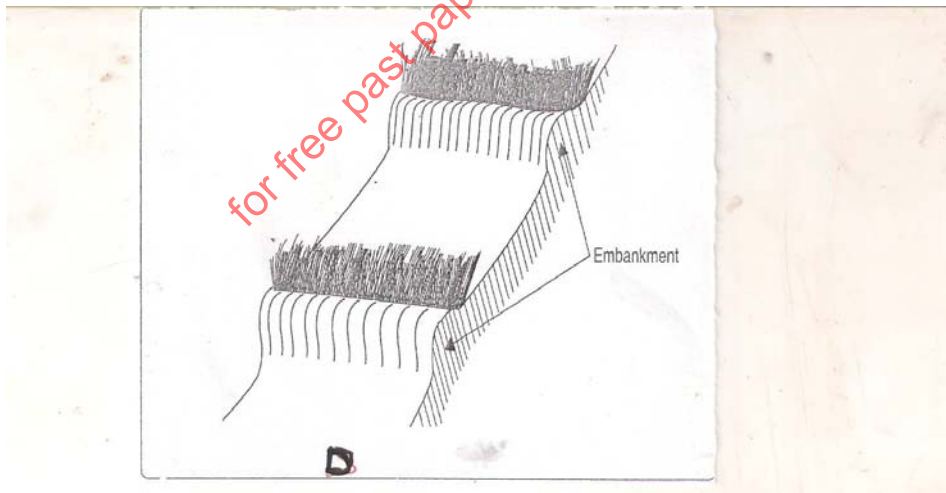


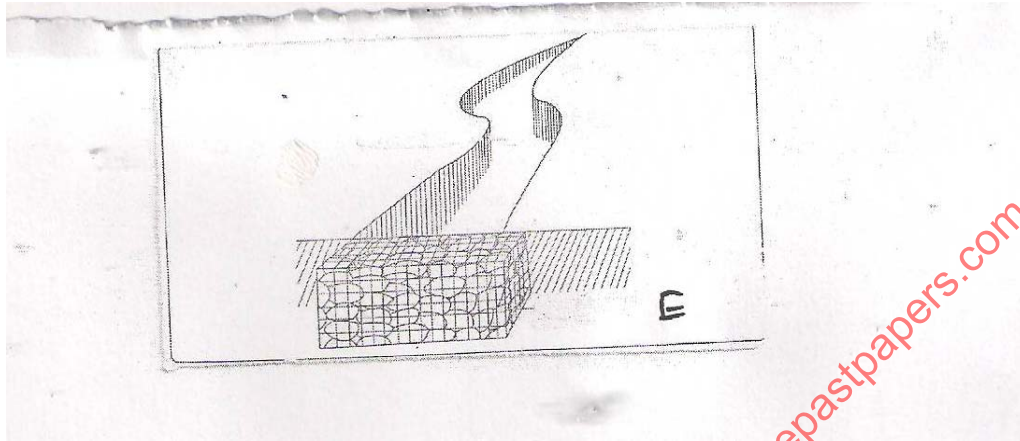
- I. Identify the crop ..... 1mk
- II. Label the parts labeled A ,B and C. 1½mks  
A.....  
B.....  
C.....
- III. Why is the part labeled A more preferred when propagating the above crop. 1mk  
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- IV. State **four** factors to be considered when selecting materials for planting. 2mks  
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- V. State **four** factors which determine the depth of planting. 2mks  
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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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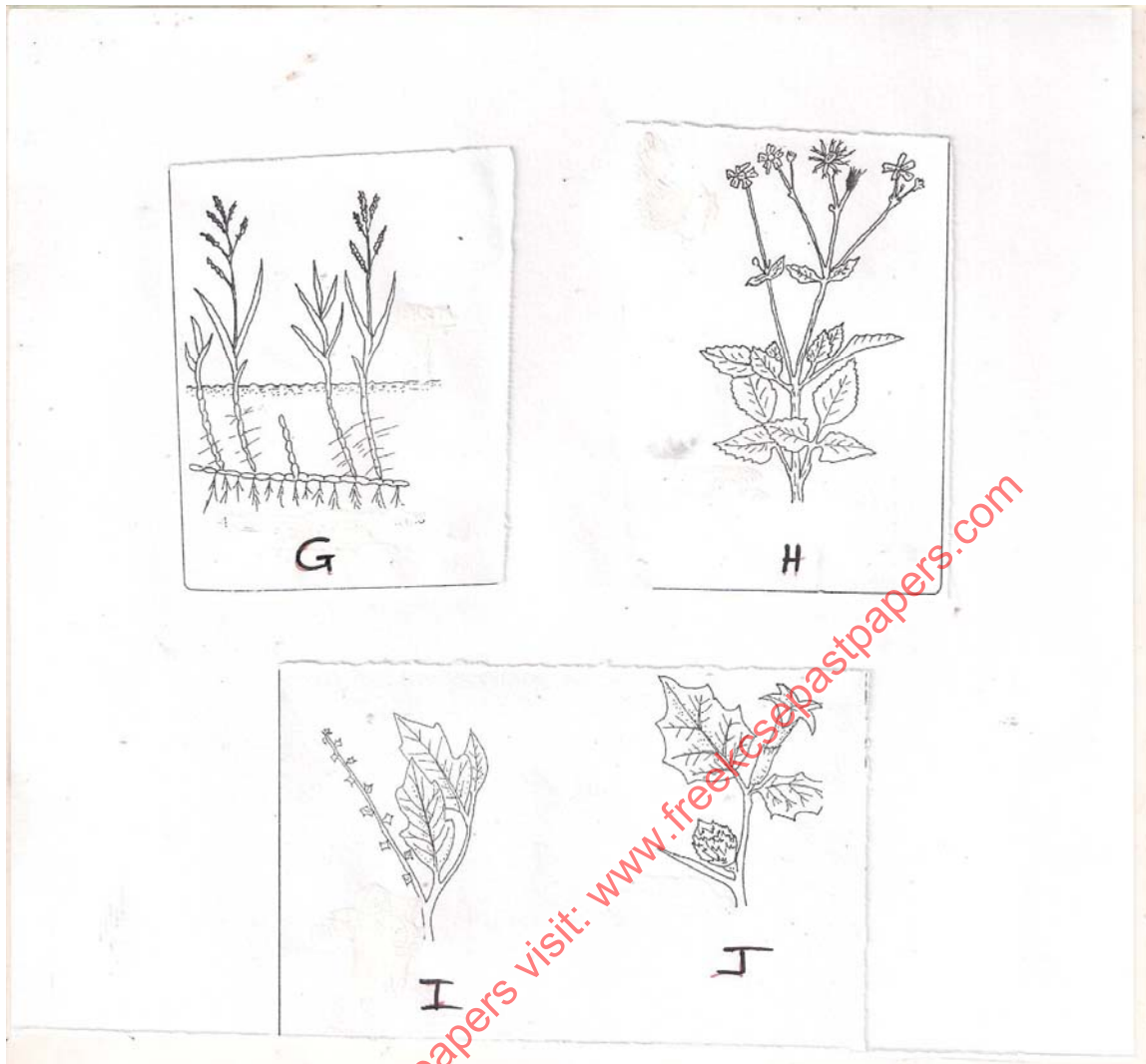
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22. The following are diagrams of common weeds in Kenya.



i. Identify the above weeds. 2mks

G.....

H.....

I.....

J.....

ii. What is the economic importance of weed 1½mks

G.....  
 .....I

I.....  
.....J  
J.....  
.....

**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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