

FORM FOUR CLUSTER KCSE MODEL14

AGRICULTURE PAPER 2 QUESTIONS

SECTION A (30 Marks)

Answer all the questions in this section in the spaces provided

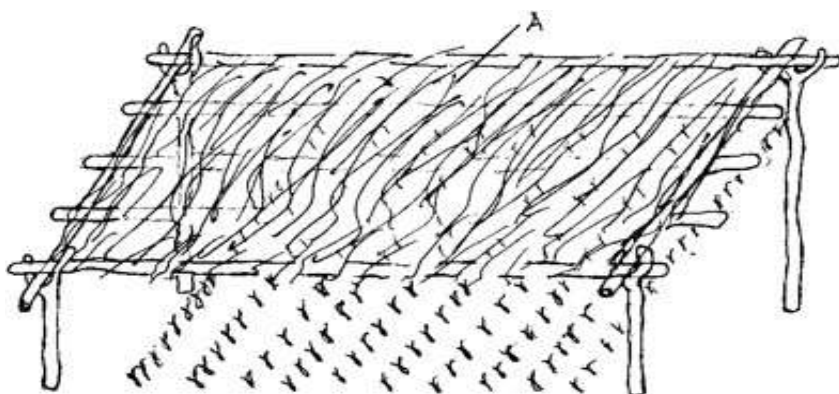
1. Name two types of drainage systems used on farms. (1 mark)
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2. Give three reasons for using certified seeds for planting. (1½ marks)
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3. State two reasons for cutting sugarcane at the base during harvesting. (1 mark)
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4. . List three care and maintenance practices that are carried out in agroforestry trees. (1½ marks)
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5. Outline three importance of earthing up in crop production. (1½ marks)
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6. Define the term capital as used in agricultural production. (1 mark)
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7. Outline four importance of mulching in crop production. (2 marks)
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8. Give three reasons for preparing a seedbed. (1½ marks)
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9. . Differentiate between contact herbicides and translocated herbicides. (2 marks)
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10. . List two biotic macro organisms that influence agriculture. (1 mark)
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11. . State four disadvantages of using vegetative materials for planting. (2 marks)
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12. . Give four reasons for conserving forage in a farm. (2 marks)
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13. . What is integrated pest management as used in pest control? (1 mark)
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14. State four problems associated with credits as a support service to the farmer. (2 marks)
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15. . State three methods of water harvesting and conservation techniques. (1½ marks)
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16. State four conditions under which shifting cultivation is practicable. (2 marks)
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17. . State the difference between fixed costs and variable costs in farming. (1 mark)
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18. Outline four effects of soil organisms which benefit plant growth. (2 marks)
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19. . State four reasons for proper drying of grains before storage. (2 marks)
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20. 20. Under what conditions is opportunity cost equals to zero? (½ mark)
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SECTION B (20 Marks)

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

21. Below is a diagram showing a cabbage nursery for raising seedlings. Study it carefully and answer the questions that follow.



- (a) State two advantages of having the part labeled A. (2 marks)

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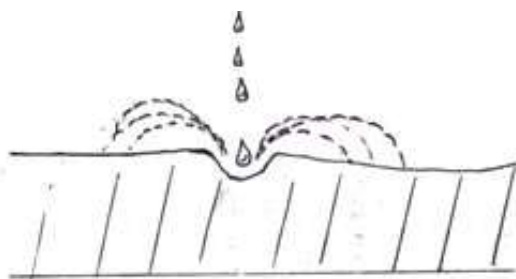
(b) State four management practices that should be carried out on the nursery from the time the seedlings emerge to the stage of transplanting. (2 marks)

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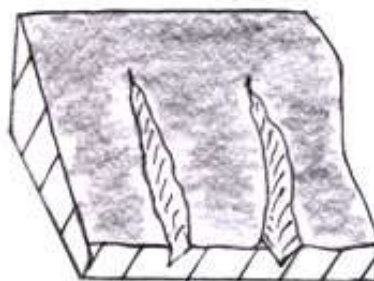
(c) At what stage of growth should the seedling be transplanted. (1 mark)

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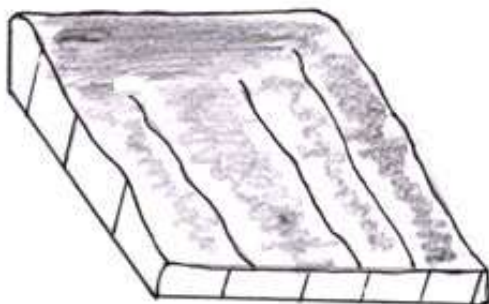
22. The illustration below indicate types of soil erosion that take place on cultivated farm land. Study it carefully and answer the questions that follow.



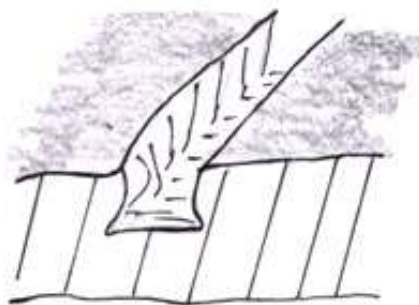
A



B



C



D

i. Identify the type of erosion represented by each of the illustrations. (2 marks)

A

B

C

D

ii. List two factors that may accelerate the rate of the type of erosion represented by A.(1 mark)

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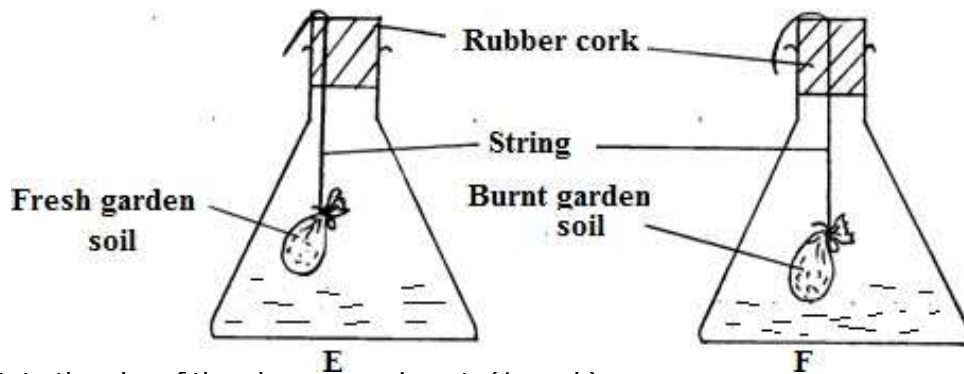
iii. State two practices that may reduce the impact of the type of erosion represented by A. (2 marks)

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23. Study the following illustration and answer the questions that follow.



I. State the aim of the above experiment. (1 mark)

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II. What observation was made in the conical flask E and F. (2 marks)

E

F

III. What conclusion was made after the experiment? (1 mark)

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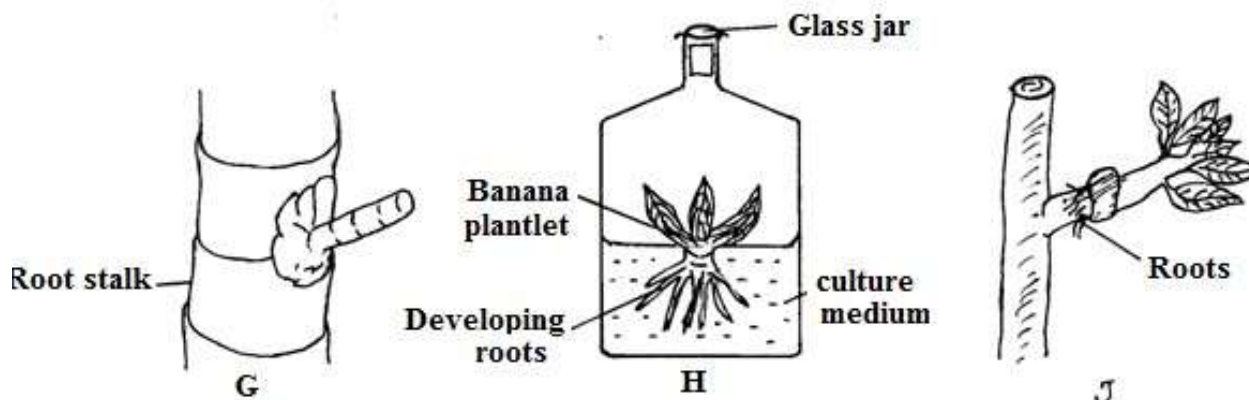
IV. Give one importance of micro-organisms in legumes. (1 mark)

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24. Study the methods of crop propagation illustrated below and then answer the questions that follow.

QUESTION



i) Identify the methods of crop propagation illustrated above. (1½ marks)

G
 H
 J

ii) Give two importance of using method H. (2 marks)

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iii) State two reasons why tying is necessary as illustrated in G. (1 mark)

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iv) Name one example of a rooting medium used in illustration J. (½ mark)

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SECTION C (40 Marks)

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

25. (a) Describe the field production of sorghum under the following sub-headings.

i. Seedbed preparation. (3 marks)

ii. Planting. (3 marks)

iii Field management practices. (4 marks)

(b) A farmer intends to replace maize with wheat in his one hectare farm the following season.

Use the following information to prepare a partial budget and advise whether it is worth undertaking. (8 marks)

[illegible]