

FORM FOUR CLUSTER KCSE MODEL9

AGRICULTURE PAPER 1 QUESTIONS

SECTION A (30 Marks)

Answer all questions

1. State THREE practices carried out in crop production that show that Agriculture is an art.
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2. State THREE conditions likely to lead to large scale farming.
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3. State TWO roles of nitrogen fixing bacteria in maintaining soil fertility.
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4. State TWO ways in which clayey soil can be made more suitable for crop farming.
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5. State THREE factors considered in choosing of implements for primary tillage.
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6. a) What is sub-soiling?
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b) Give TWO roles of sub-soiling in land preparation.
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7. a) What is land tenure reform?
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b) State THREE objectives of land tenure reform.
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8. Give THREE qualities of trees and shrubs suitable for Agro forestry.
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9. Give THREE examples of variable costs incurred by a livestock farmer.
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10. State THREE qualities of a good farm manager.
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11. State TWO conditions likely to cause sheet erosion.
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12. State THREE factors considered in classification of crop pests.
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13. State TWO symptoms of potassium deficiency in crops.
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14. State TWO reasons why soil testing is done.
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15. Distinguish between seed dressing and seed inoculation.
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16. a) State THREE cultural methods of controlling crop weeds.
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b) State TWO reasons why weeds should be effectively controlled in a field of pasture
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17. State THREE advantages of conserving forage in form of silage.
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18. State TWO qualities of plants for green manure production.
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19. State TWO factors considered in the choice of a correct irrigation method to be used in farming.
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20. a) State TWO types of records kept by a dairy farmer.
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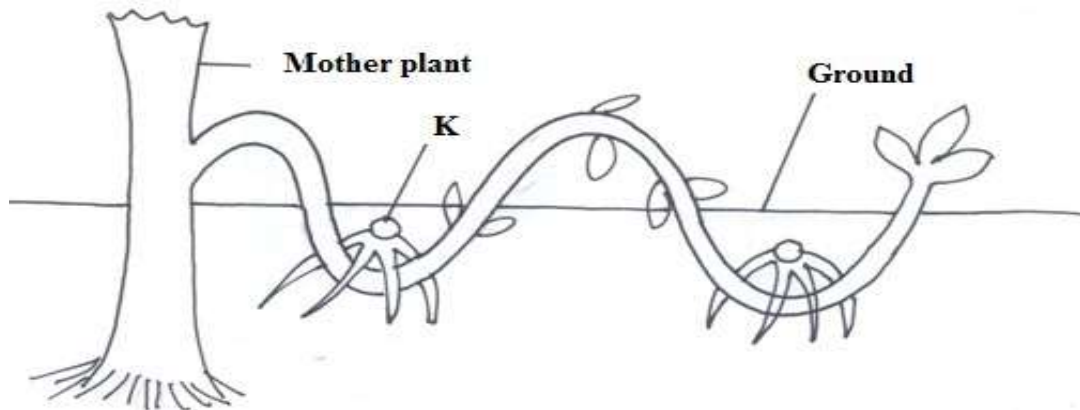
b) State TWO problems associated with using credit as a source of capital in Agricultural production.
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21. State TWO morphological features likely to affect selectivity of herbicides in a field of crops.

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SECTION B (20 Marks)

Answer all questions

22. Study the illustrations below and answer the questions that follow



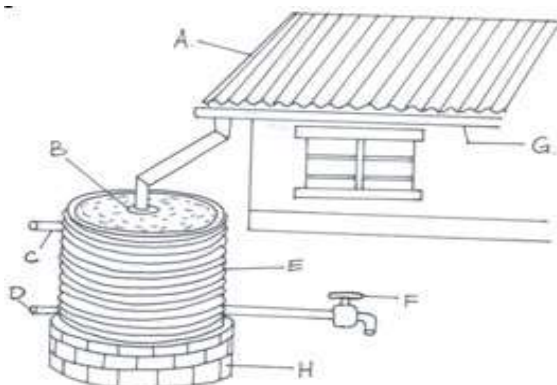
a) Identify the layering method illustrated in the above diagram.

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b) Apart from the layering method illustrated above, name any other TWO layering methods.
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c) State the role of structure labeled K in the diagram above in layering.
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d) Give TWO advantages of propagating crops vegetatively by use of budding.
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23. The diagram below shows a method of water collection and storage. Study it and answer the questions that follow.



a) Identify the parts labeled A – H.

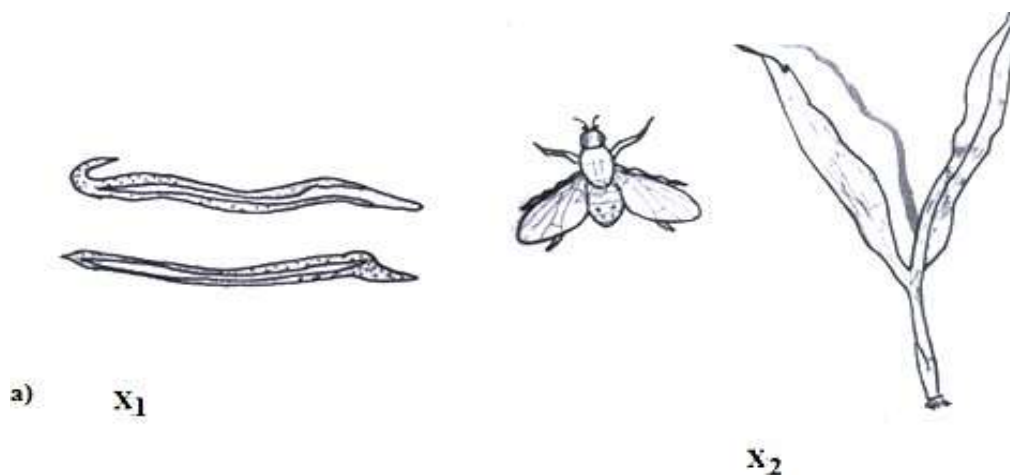
A..... B..... C.....
 D..... E..... F.....
 G..... H.....

b) Identify the method of water collection illustrated above.

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c) State TWO precautions you would observe when using the above method in order to collect clean water and have safe storage.

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24. Study the crop pests illustrated below and answer questions below.

a) Identify the crop pests labeled X1 and X2

i. X1.....

ii. X2.....

b) State TWO damages caused by X1 on crops.

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c) State TWO control measures you would carry out to control pest labelled X2

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d) Name ONE field crop attacked by pest labelled X2.

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SECTION C (40 Marks)

Answer TWO questions

25. a) Describe FIVE farming practices you would carry out to improve the productivity of an infertile soil.

- b) Explain FIVE factors considered in selection of a suitable nursery site.
 - c) Explain FIVE methods used in breaking seed dormancy.
26. a) Explain FIVE reasons why it is important to budget for farm enterprises before carrying them out.
- b) Explain FIVE non-chemical methods you would advise a farmer to use in controlling crop diseases.
 - c) Describe the procedure followed in carrying out soil sampling.
27. a) Describe the management practices you would carry out in grass pasture after planting upto and including utilization.
- b) Describe FIVE methods used in harvesting water on the farm.