

# FORM FOUR CLUSTER KCSE MODEL 6

## AGRICULTURE PAPER 1 QUESTIONS

### SECTION A (30 Marks)

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

1. List four characteristics of plants used for green manure.

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2. a) What is meant by the term land tenure? (2marks)

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b) State four advantages of communal land tenure system. (2marks)

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3. Name any two basic concepts of economics.

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4. List four livestock species that may be reared under pastoralism.

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5. State four methods of drainage.

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6. State the role of each of the following in chemical water treatment.

i. Sieves .....

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ii. Soda ash .....

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iii. Alum .....

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iv. Chlorine .....

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7. Name the four types of market structures in Agriculture.....

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8. State four records that can be entered in a journal.

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9. State four ways in which soil fertility can be maintained.

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10. State four activities that are carried out during soil sampling.

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11. State the importance of land clearing during seedbed preparation.

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12. Give four ways through which minimum tillage is achieved.

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13. Give four effects of solifluction and landslides on agriculture.

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14. List two agents of soil erosion.

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15. Outline four importance of trees and shrubs on the farm.

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16. Give two effects of pests with biting and chewing mouth parts incrops.

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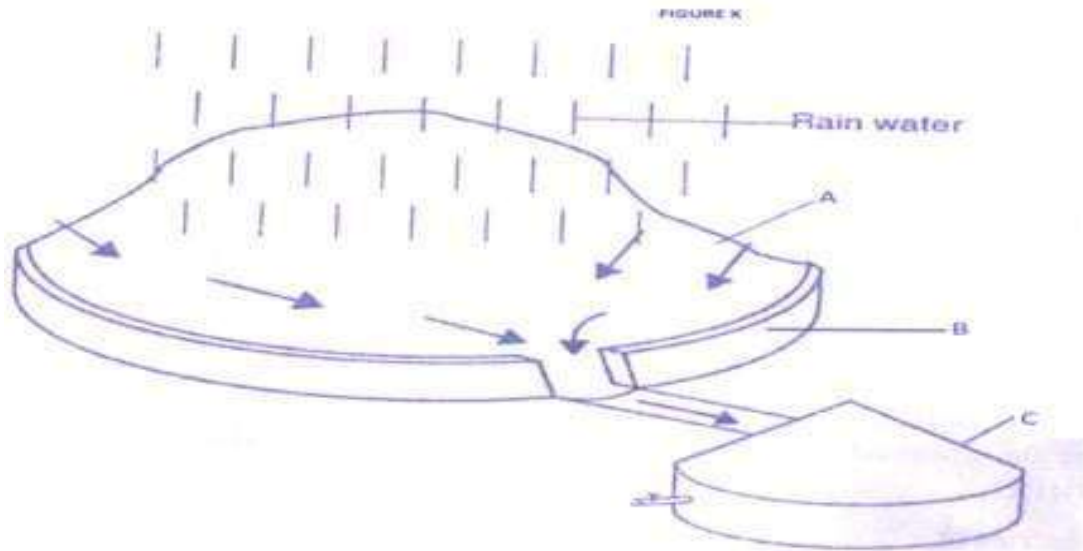
17. State two advantages of training in tomato production.

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**SECTION B (20 Marks)**

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

18. Study the diagram of water harvesting method below and answer the questions that follow. (2marks)



a. Identify the method of water harvesting in figure X. (1 mark)

b. Name the parts labeled A and B. (2marks)

A.....  
B.....

c. Give the function of the part labelled C. (1 mark)

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d. Apart from the method shown above, name any other method of water harvesting. (1 mark)

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19. Below is an illustration of a soil structure.



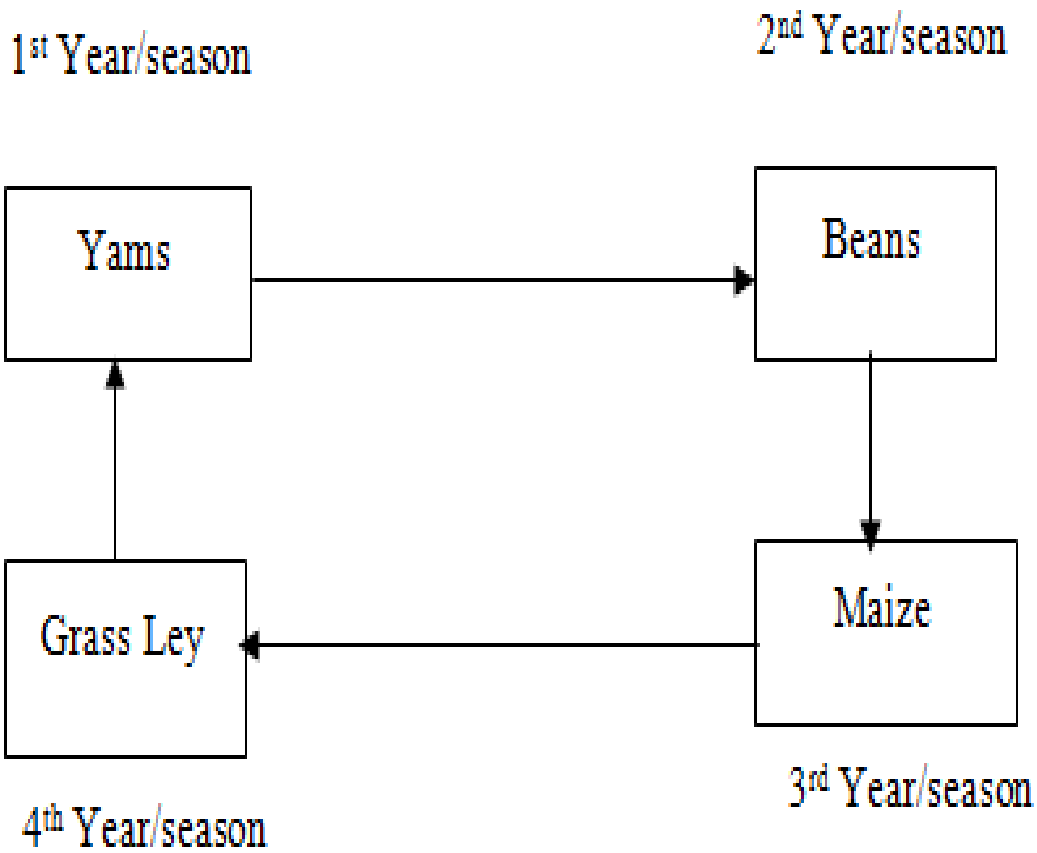
a. Describe two negative effects of the type of structure above on Agriculture. (2marks)

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b. Describe three influences of a good soil structure on Agriculture. (3marks)

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20. Below is a diagram showing a four year crop rotation program starting with fallow land.



a. Explain why yams will be appropriate in the first season. (2marks)

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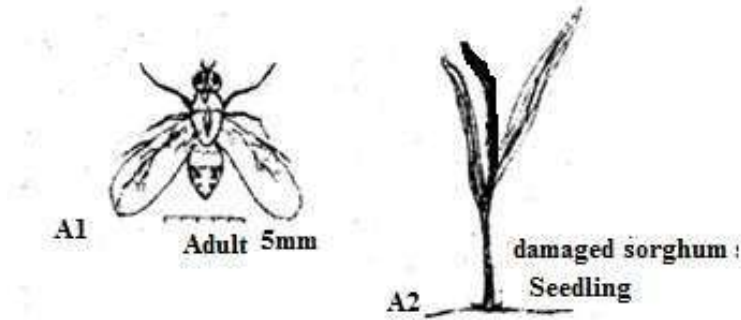
b. Give two reasons why maize should come after beans. (2marks)

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c. Describe the importance of including a grass ley in the rotation. (1 mark)

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21. Diagram A1 below shows an adult crop pest which, in its larva stage causes the middle shoots of sorghum seedlings wither as shown in the diagram A2.



a) i. Identify the pest. (1 mark)

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ii. Give one way of controlling the pest. (1 mark)

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Diagrams B, C and D below show panicles of three sorghum varieties growing side by side.



i) Which of three varieties of sorghum is least likely to be damaged by birds?(1 mark)

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ii) Give a reason for your answer in

(i) above. (1 mark)

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c) State one damage caused by birds in sorghum. (1 mark)

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## **SECTION C (40 Marks)**

### **Answer any two questions in this section**

22. a) What are the qualities of a good farm manager? (5marks)
- b) Explain the principles on which farmers cooperatives operate. (9marks)
- c) Explain six biotic factors that influence agricultural production. (6marks)
23. a) Outline the advantages of mixed pastures over pure grass pasture. (6marks)
- b) Describe vegetable nursery management practices. (7marks)
- c) Describe time of planting crops under the following subheading;
- i) Factors to consider in timing planting. (3marks)
- ii) Advantages of timely planting cereals. (4marks)
24. a) Explain six cultural ways of weed control. (6marks)
- b) Describe harvesting of sugarcane. (7marks)
- c) Describe production of carrots under the following sub headings;
- i) Seedbed preparation (5marks)
- ii) Harvesting. (2marks)