

FORM FOUR CLUSTER KCSE MODEL5

AGRICULTURE PAPER 1 QUESTIONS

SECTION A (30 Marks)

1. Outline six factors to consider in choosing a farming system.
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2. List three aspects of light that influences crop growth.
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3. State four factors that one should consider when selecting garden tools for cultivation.
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4. State two types of metal pipes used on the farm.
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5. Name two types of inventory records.
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6. State two crop production practices carried out after planting to achieve optimum plant population.
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7. State four functions of boron in crop development.
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.....
8. a) What is solifluction? (1 mark)
.....
b) State four factors affecting solifluction. (2marks)
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9. State four symptoms of viral attack in crop pest.
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10. At what stage in the growth of beans should mechanical weed control be avoided. (1 mark)
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11. 11. a) Define crop rotation. (1 mark)
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b) State one factor that would determine the economic performance of a lease hold land tenure system. (1.5)

12. Name one vegetative material used to propagate each of the following crops.

i. Irish potatoes

ii. Pineapples

iii. Bananas

iv. Pyrethrum

13. State four factors to consider when choosing a nursery site.

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14. State four factors which may affect the quality of hay.

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15. a) Define soil fertility. (1 mark)

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b) List five characteristics of a crop grown for green manure. (2½marks)

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16. Define agroforestry.

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SECTION B (20 Marks)

17. Sample weighing 120gm was heated in an oven at 105°C. The dry soil was weighed and the weight recorded

as 112gm. The soil was then heated strongly after which was recorded as 106gms.

i. Calculate the percentage content of water in the initial soil sample. (2 marks)

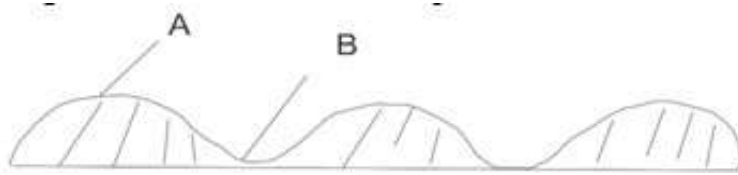
ii. Why was the soil not heated strongly initially. (1 mark)

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iii. Calculate the weight of humus in the sample. (1 mark)

iv. Find the percentage content of humus in the soil sample. (2 marks)

18. Study the diagram below and answer the questions that follow.



i. Identify the farming practice. (1 mark)

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ii. Label parts A and B. (2 marks)

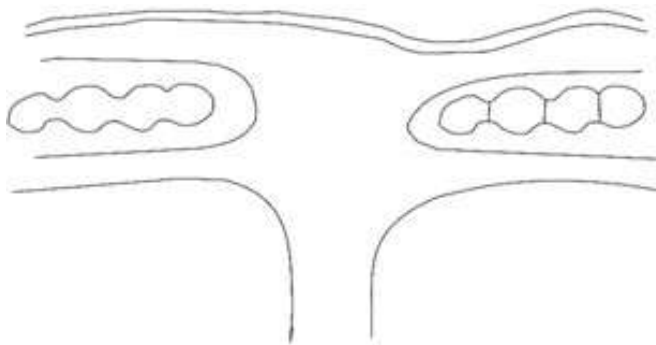
A

B

. iii. Give importance of the practice above. (1 mark)

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19. . The diagram below represents crop pest.



i. Identify the crop pest. (1 mark)

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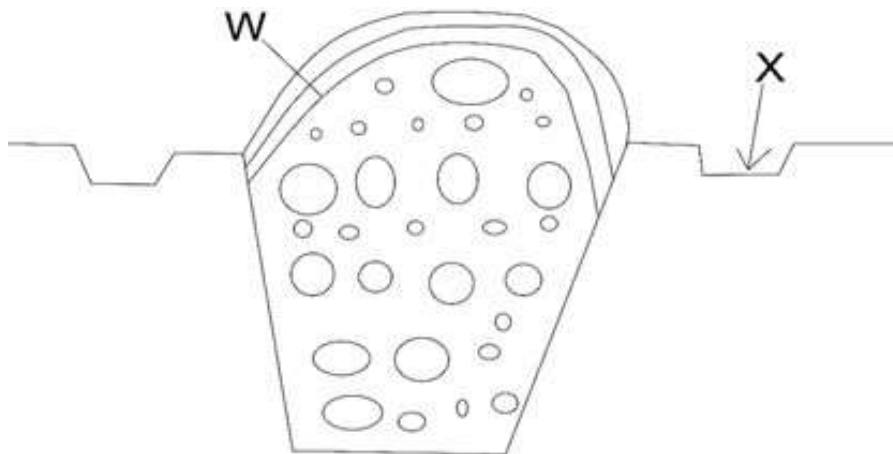
ii. Name one crop attacked by the crop pest. (1 mark)

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iii. State three ways in which the pest can be controlled. (3 marks)

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20. Study the diagram of the silo below and answer the questions that follow.



i. Identify the method of ensiling above. (1 mark)

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ii. Give functions of the parts labelled W and X. (2 marks)

W.....

X.....

iii. Name two other methods of forage preservation. (2 marks)

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SECTION C (40 Marks)

21. a) Describe the practices that a farmer should carry out to ensure uniform germination of seeds. (8 marks)

b) State and explain six cultural methods of weed control. (12 marks)

22. a) Describe the procedure involved in water treatment using a chemical treatment system. (12 marks)

b) Explain eight effects of fragmentation and sub-division of land. (8 marks)

23. Describe field production of nappier (elephant grass) under the following sub-headings.

i. Seedbed preparation. (5 marks)

ii. Planting (6 marks)

iii. Fertilizer application (3 marks)

iv. Weed control (2 marks)

v. Utilization (4 marks)

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