

NAME: ..... DATE: .....

Adm. NO: ..... CANDIDATE'S SIGNATURE: .....

443  
AGRICULTURE  
FORM TWO  
TIME: 2 HOURS

**Kenya Certificate of Secondary Education**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and admission number in the spaces provided above.
2. Answer **ALL** the questions in the spaces provided.

**FOR EXAMINERS USE ONLY**

QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
1 – 26	90	

1.

a) Name four examples of micro nutrient used in an agricultural farm (2 mks)

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b) Outline four properties of nitrogenous fertilizer (2 mks)

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c) Give two functions of nitrogen in crops of nitrogen in crops (1 mk)

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2.

a) State two main types of planting materials used in establishing of crops (2 mks)

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b) Give four factors determining the spacing of crops (2 mks)

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c) Give four conditions under which shifting cultivation is practiced (2 mks)

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3. Name four factors determining seed rate (2 mks)

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4. Give four factors determining soil forming processes (2 mks)

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5.

a) Give four importance of maintaining farm tools and equipment (2 mks)

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b) Give two ways of achieving tertiary operations (1 mk)

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6. Using definitions only differentiate between fertilizer grade and fertilizer ratio (2 mks)

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7.

a) Give four climatic factors influencing agriculture (2 mks)

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**b) Name two main farming systems (1 mk)**

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**8. State four factors considered when choosing a type of irrigation (2 mks)**

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**9. Give four importance of soil pH to crop production (2 mks)**

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**10. Edna a farmer in Kama Village happens to buy a certified seed of 95% germination percentage and planted at a spacing of 20CM by 10CM in a 2 hectares piece of land. Estimate the plant population. (3 mks)**

**11. a) What is scarcity (1 mk)**

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**b) List four types farm records that can be used in bean production (2 mks)**

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c) Outline four uses of farm records in the farm (2 mks)

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12. List four soil constituents of soil (2 mks)

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13. Identify four tools used in masonry work (2 mks)

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14.

a) State two causes of hard pan (2 mks)

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b) Give four characteristics of plantation farming (2 mks)

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c) Name four methods of irrigating land (2 mks)

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15.

a) Define a fertile soil (1 mk)

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b) Give two types organic manure (1 mk)

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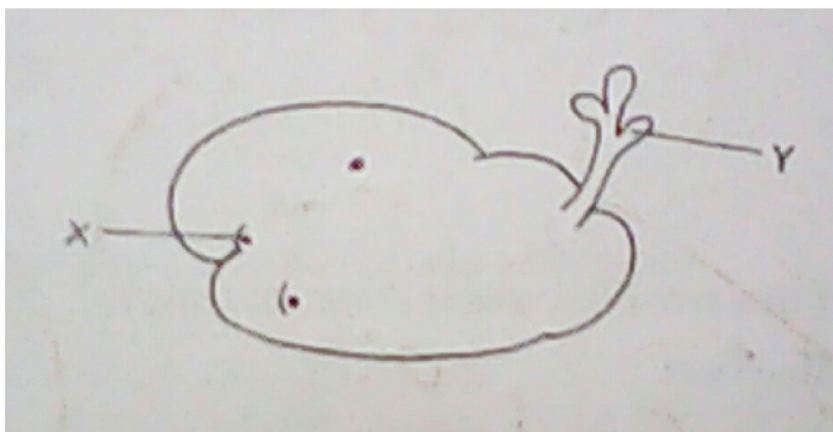
16. A compound fertilizer bag has the labels 20-10-0.

a) What do the figures 10 and 0 stand for (1 mk)

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b) Calculate the quantity of nitrogen required in 450 Kg of Ammonium Sulphate (2 mks)

17. The diagram below illustrates a planting material. Study it carefully and answer the question that follow;



a) Identify the organ (1 mk)

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b) Label the parts X and Y (2 mks)

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c) Name the method that was used in preparing the above planting material (1 mk)

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d) Give one environmental condition that is necessary for the success of this method of preparing a planting material (1 mk)

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18. State two ways in which agriculture contributes to industrial development (2 mks)

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19. State four ways by which wind affects the growth of crops (2 mks)

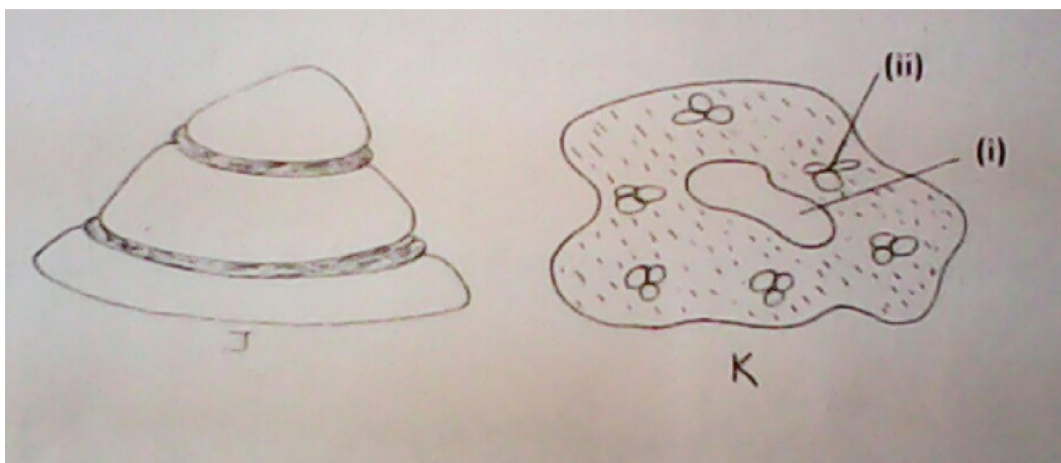
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20. The diagram below illustrates some types of soil structure. Study and answer the questions that follow;



a) Identify the types of soil structure illustrated in the diagrams J and K (2 mks)

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**b) Name the parts labeled (i) and (ii) in the diagram K (2 mks)**

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**c) State two effects of soil structured labeled J in crop production (2 mks)**

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**21.**

**a) State four importance of sub soiling as tertiary operation (2 mks)**

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**b) Outline four advantages of rolling in seedbed preparation (2 mks)**

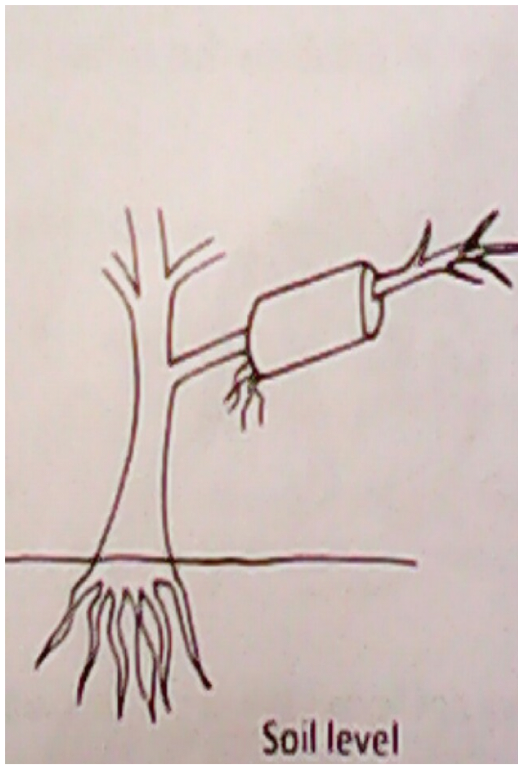
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**c) Give four importance of drainage as a method of land reclamation (2 mks)**

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**22. The diagram shows a method of crops;**





a) Identify the propagation method illustrated above (1 mk)

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b) State two ways of initiating faster root development in propagation method illustrated (2 mks)

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23. Give four methods of harvesting water in the farm (2 mks)

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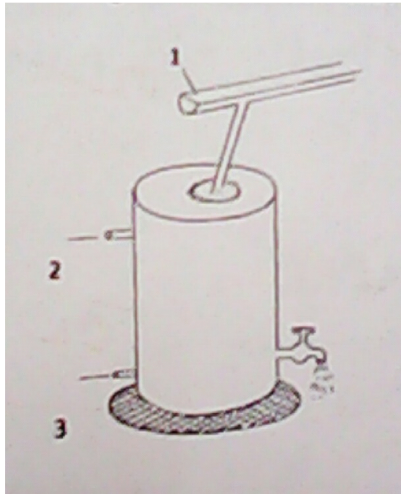
24. a) State two factors considered when siting compost manure heap (2 mks)

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b) State two methods of increasing soil  $p^H$  (2 mks)

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25. Below is a diagram of a domestic tank. Study it and answer the questions that follow;



a) Name the parts labeled 1, 2 and 3 (3 mks)

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Outline four qualities of clean water (2 mks)

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26.

a) Outline two importance of tissue culture in crop production (2 mks)

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b) State the difference between a seedling bed and a seedbed (2 mks)

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