

NAME: DATE:

SCHOOL.....

ADM NO: CANDIDATE'S SIGNATURE:

443 / 1

AGRICULTURE PAPER ONE

FORM THREE

TIME: 2 HOURS

TERM TWO

FORM THREE

INSTRUCTIONS TO CANDIDATES

1. Write your name and admission number in the spaces provided above.
2. This paper has **THREE** sections: A , B and C.
3. Answer **ALL** the questions in section A and B and any **TWO** questions in section C.
4. **ALL** answers **MUST** be written in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 17	30	
B	18 - 21	20	
C		20	
		20	
TOTAL		90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. State two advantages of intensive farming system. (1 mk)
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.....
2. Outline four effects of application of nitrogenous fertilizers on tomatoes. (2 mks)
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3. List four ways which are used to control stalk borers in maize. (2 mks)
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4. Give four factors that influence the quantity of water used in the farm. (2 mks)
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5. List four factor considered when siting a nursery bed (2 mks)
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6. List three causes of land subdivision and land fragmentation (1½ mk)
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7. Give four methods of layering in crop production. (2 mks)
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8. Outline four adaptive features of a weed to establishment (2 mks)

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9. Give four disadvantages of landlordism tenancy system of land tenure. (2 mks)

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10. List two types of labour record kept on the farm. (1 mk)

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11. Give reason as to why the following practices are carried out in preparation of planting materials.

a) Seed dressing. (½ mk)

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b) Seed inoculation. (½ mk)

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c) Chitting. (½ mk)

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12. Identify four ways of achieving plant population in an agricultural farm (2 mks)

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13. State four ways in which biological agents influence soil formation. (2 mks)

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14. Besides providing water to the plants. State two other uses of flood water to rice field. (1 mk)

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15. Outline four reasons for pruning fruits crops. (2 mks)

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16. State four importance of breaking hard pan in land preparation. (2 mks)

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17. How are the following conditions prevented in carrot production (2 mks)

a) Forking.

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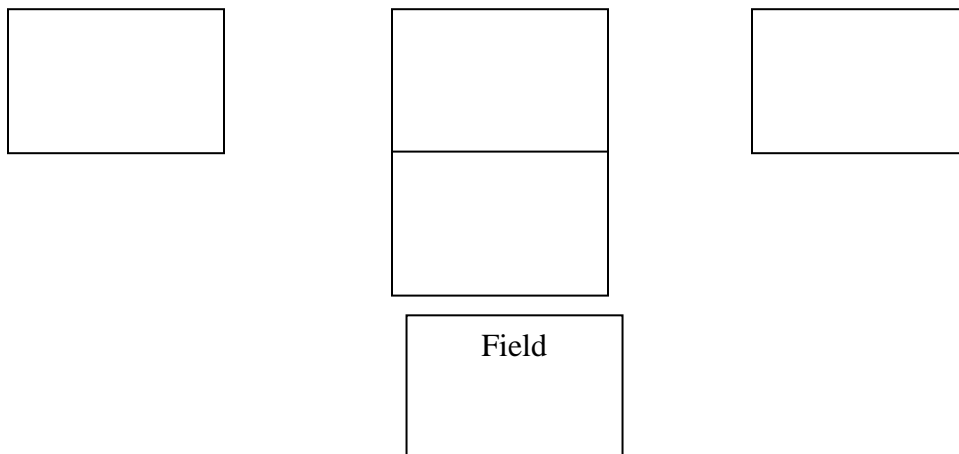
b) Greening of root tuber.

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SECTION B: (20 MARKS)

Answer all questions in this section in the spaces provided.

18. The illustration below shows a layout of a method of making compost manure. Study it correctly and answer the questions that follow.



a) Identify the method above.

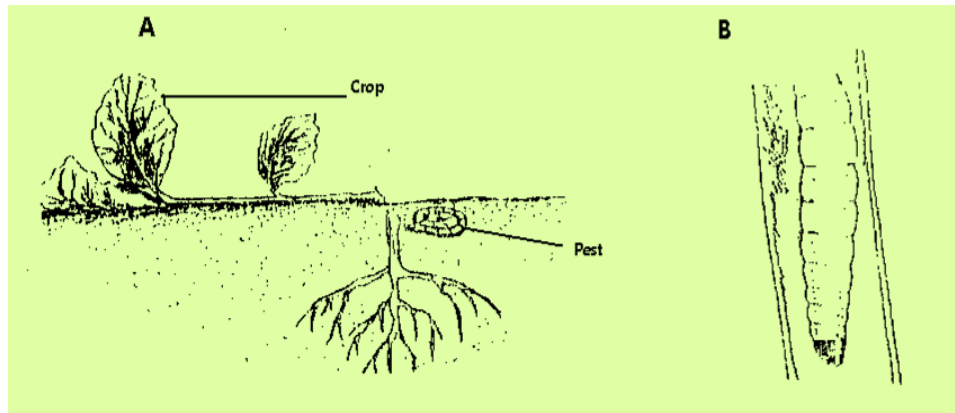
(1 mk)

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b) Using letters X, Y and Z and arrows complete the diagram above.

(4 mks)

19. The diagrams below A and B illustrates some field pests study them carefully and answer the questions that follow.



a) Identify pests A and B.

(1 mk)

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.....

b) State two damages caused by pest B to a crop of maize.

(2 mks)

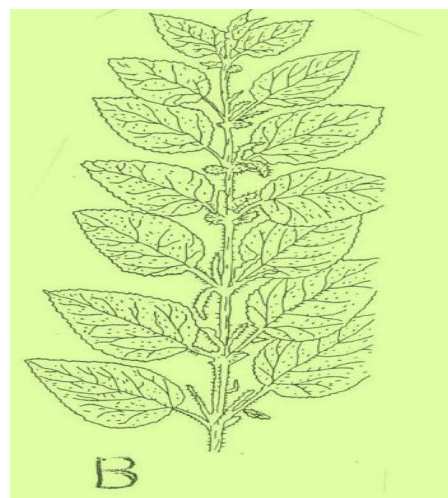
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c) Give two cultural practices carried out to control the pest in A.

(2 mks)

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20. Below are diagrams of weed study them and answer the questions that follow.



a) Identify weeds (2 mks)

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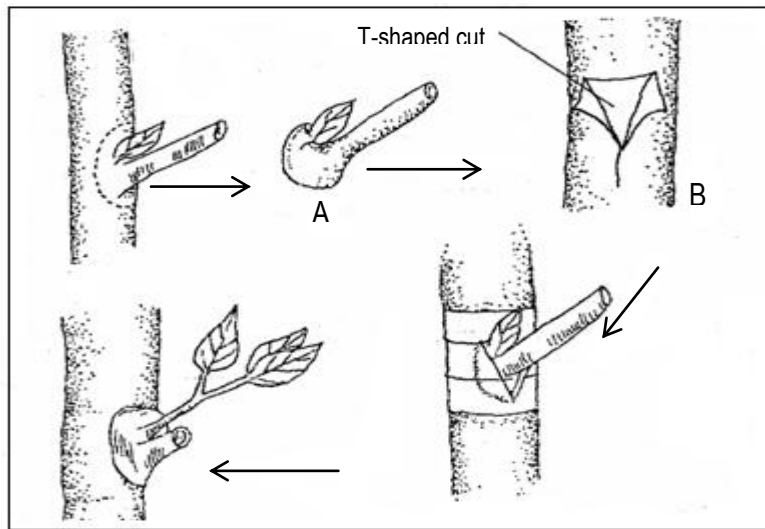
b) Explain why it's difficult to control the above weeds. (1 mk)

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c) Mention two benefits of weed B to the farm. (2 mks)

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21. Study the following diagram and answer questions that follow.



a) Name the practice shown in the above diagram. (1 mk)

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b) Identify parts A and B. (2 mks)

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c) Give two advantages of the above operation shown on the diagram in crop production. (2 mks)

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SECTION C (40 MARKS)

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

- 22.
- a) Discuss five factors considered when choosing a type of irrigation. (10 mks)
 - b) Explain five structural methods of soil erosion control. (10 mks)
- 23.
- a) Describe ten management practices carried out on a nursery to ensure proper seedling development. (10 mks)
 - b) Discuss five benefits from practicing minimum tillage. (10 mks)
- 24.
- a) Explain five methods of drainage (5 mks)
 - b) Explain five factors to consider when choosing maize varieties for different ecological zones in Kenya. (5 mks)
 - c) Outline ten effects of wind on agricultural production. (10 mks)

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