| NA | NAMEADM NOCLASS | S |
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| FO | FORM 3 | |
| PA | 443/1 AGRICULTURE PAPER 1 TIME: 2 HOURS | |
| | SECTION A (30MARKS) | |
| | Answer ALL the questions in the spaces provided | |
| 1. | 1. Give four biotic factors which influence Agriculture positively. | (2 marks) |
| | | |
| 2. | 2. State two farming practices which enhance organic farming. | (1 mark) |
| | - Arcsel Pastr | |
| 3. | 3. Which chemical are used during water treatment to; | (1½ marks) |
| i) | · | |
| ii) | | |
| | 4. Give two reasons that makes phosphatic fertilizers good for use during planting t | ime. (1 mark) |
| | - Ne Hee | |
| 5. | 5. List down four qualities of a good farm record. | (2 marks) |
| | | |
| 6. i) | | (1½ marks) |
| ii) | | |

| iii) | Chitting |
|-----------|---|
| | State three problems associated with land fragmentation in Kenya? (1½ marks) |
| 7. | Outline four land Reforms Programmes which have been carried out in Kenya since independence. |
| | (2 marks) |
| 8. | List down four common methods of harvesting water. When the state of |
| | m Papers isit. |
| 9. | Give three methods of breaking seed dormancy. (1½ marks) |
| | What do you understand by the following terms as used in pests classification according to mode of action. (2 marks) |
| i) ii) | Systemic poisons Systemic poisons |
| iii) | Contact poisons |

| iv) Suffocants | |
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| | |
| 12.Give two reasons why farmers are encouraged to practice organic farming. | (1 mark) |
| 13.State three advantages of shifting cultivation. | (1½ marks) |
| - OBIS COM | |
| 14.List four methods of farming. | (2 marks) |
| - Treekest | |
| it. Natur. | |
| 15.Outline three effects of soil organisms which benefit crop growth. | (1½ marks) |
| -am pak | |
| 16.State two harmful effects of strong wind on crop production. | (1 mark) |
| - Constitute two marmar errors of productions | (1 man) |
| 17.State three advantages of adding organic matter to sandy soil. | (1½ marks) |
| 18.State three ways by which biological agents can enhance the process of soil formation | n. (1½ marks) |
| | |
| 19.Outline four main reasons for secondary tillage. | (2 marks) |

| SECTION B (20 MARKS) | |
|--|-----------|
| Answer ALL the questions in the spaces provides | |
| Below are two types of soil structures A and B. | |
| A B | |
| Identify the two- types of soil structures. A | (2 marks) |
| В | |
| State where the above soil structures are likely to be found. | (1 mark) |
| Outline ways which soil structure influences crop production. | (3 marks) |
| a) Study the diagram below and answer the questions that follow. | |
| i) Study the diagram below and answer the questions that follow.i) What is layering? | (1 mark) |
| Solve and the second se | |
| ii) Identify the type of layering shown below. | (1 mark) |
| | |
| b) Give two advantages of tissue culture in crop production. | (2 marks) |
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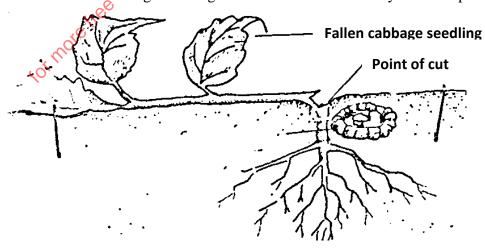
22a) Maize requires 120kg/ha of phosphorus pentoxide (P₂O₅). How much of the compound fertilizer 20:20:10 would be applied to 0.4 hectare of land to achieve this rate. (show your working).

(3 marks)

b) Distinguish between straight fertilizers and compound fertilizers.

(2 marks)

23. The diagram below shows a cabbage seedling which has been attacked by a certain pest.



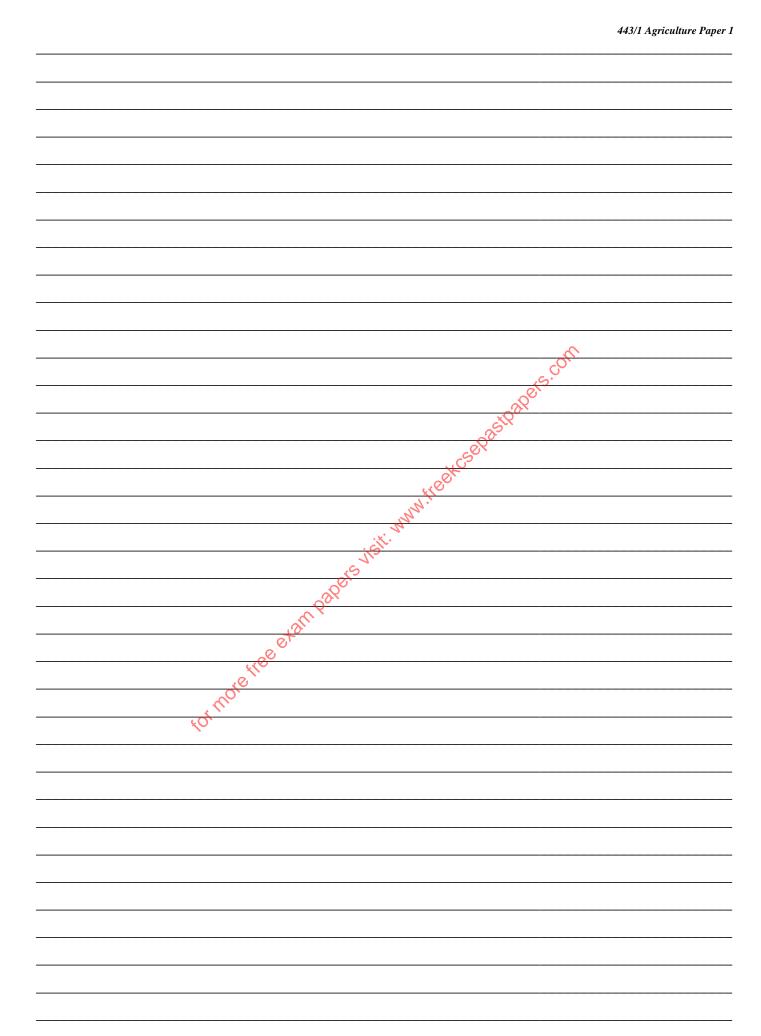
a) Identify the pest (1 mark)

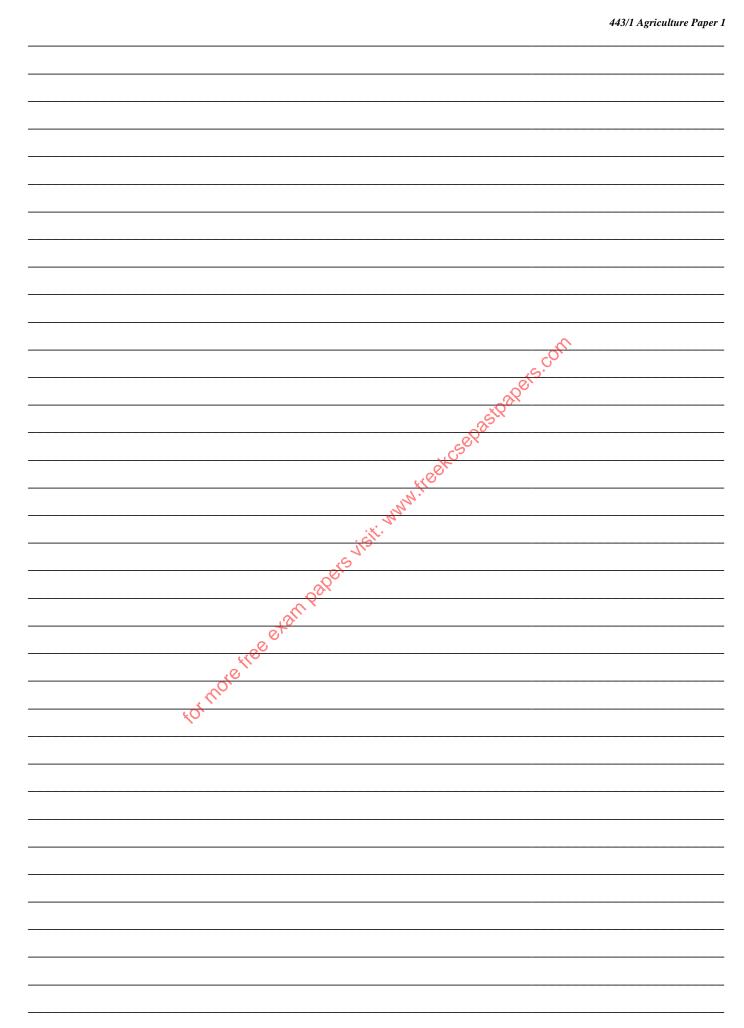
b) State three methods of controlling the above pest

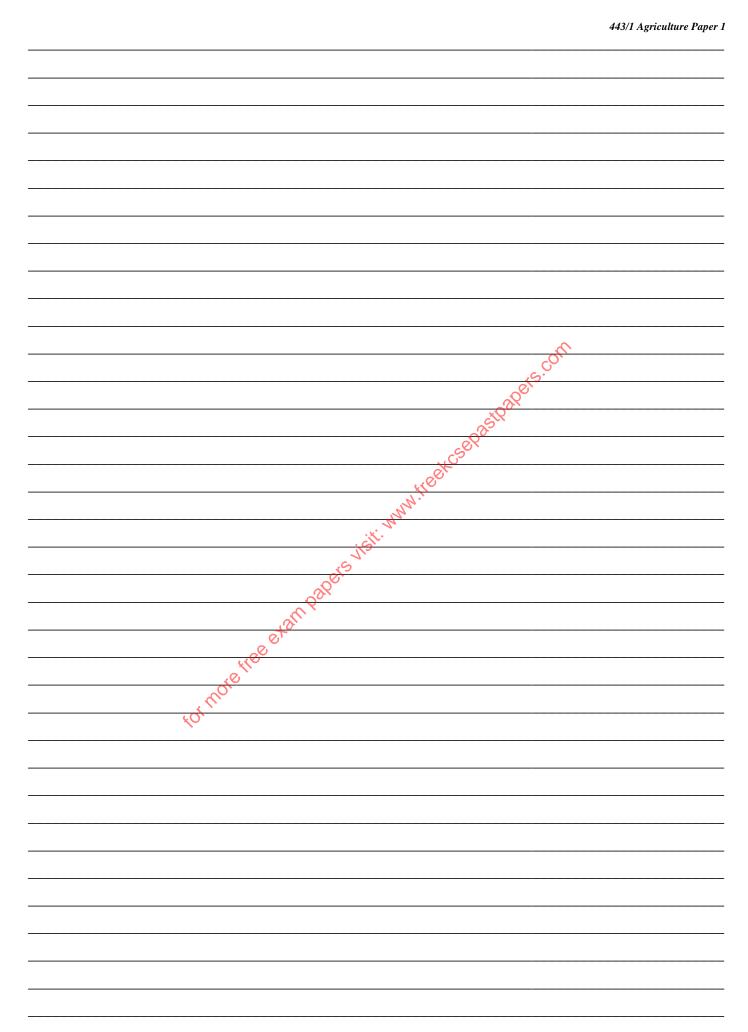
(3 marks)

SECTION C (40MARKS)

| Answer any TWO questions in this section in the spaces provided after question 25 | |
|---|------------|
| 24.a) Outline the factors affecting rooting of cuttings. | (5 marks) |
| b) State and explain human factors that influence Agricultural production. | (10 marks) |
| c) Highlight the management practices carried out in a nursery. | (5 marks) |
| | |
| | 40 |
| 25.a) State and explain five ways through which soil loses its fertility. | (10 marks) |
| b) Describe five characteristics of Nitrogenous fertilizers. c) Outline five methods used in application of inorganic fertilizers. 26.a) Explain seven cultural methods of controlling crop diseases. b) Describe precautions taken during the harvesting of coffee. c) Given that a crop of cabbage is planted at a spacing of 60cm × 60cm, calculate the pla population in a plot of land measuring 4m × 3m. (show your working). d) Give five factors that determine spacing of cabbages in the field | (5 marks) |
| c) Outline five methods used in application of inorganic fertilizers. | (5 marks) |
| 26.a) Explain seven cultural methods of controlling crop diseases. | (7 marks) |
| b) Describe precautions taken during the harvesting of coffee. | (4 marks) |
| c) Given that a crop of cabbage is planted at a spacing of 60cm × 60cm, calculate the pla | nt |
| population in a plot of land measuring $4m \times 3m$. (show your working). | (4 marks) |
| d) Give five factors that determine spacing of cabbages in the field. | (5 marks) |
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