

END OF TERM 1 EXAMS

AGRICULTURE

FORM THREE

PAPER 1

TIME: 2 HOURS

NAME..... ADM NO:.....

SIGN..... INDEX NO:.....

DATE;.....

INSTRUCTIONS TO CANDIDATES:

- Answer *ALL* the questions
- Answers should be written in the spaces provided

SECTION A (30 marks)

1. Mention **four** factors that determine the depth of planting in crop production. (2mks)

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2. State **four** benefits of a good soil structure. (2mks)

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3. State **four** factors to be considered in sitting nursery bed. (2mks)

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4. Give **four** advantages of shifting cultivation. (2mks)

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5. Name **four** factors influencing soil formation. (2mks)

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6. Define the term **drainage**. (1mk)

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7. Give any **three** tertiary operations carried out during land preparation. (1 ½mks)

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8. State **three** forms in which soil water exists. (1 ½ mks)

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9. In farming under what conditions is opportunity cost zero. (1mk)

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10. What are the deficiency symptoms of sulphur? (1½ mks)

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11. Name the vegetative materials used in the establishment of the following crops.

Bananas(½ mk)

Pineapples.....(½ mk)

Sisal (½ mk)

12. State **four** advantages for planting potatoes in a ridged seedbed. (2mks)

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13. State **four** reasons for pruning. (2mks)

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14. What is organic farming?

(1mk)

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15. Give reasons for carrying each of the following practices in tomatoes nursery.

(2mks)

i) Pricking out

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ii) Hardening off

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iii) State two problems that may be brought by a hard pan.

(1mk)

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15. Give **four** advantages of tissue culture.

(2 marks)

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16. State **four** properties of soil influenced by its texture.

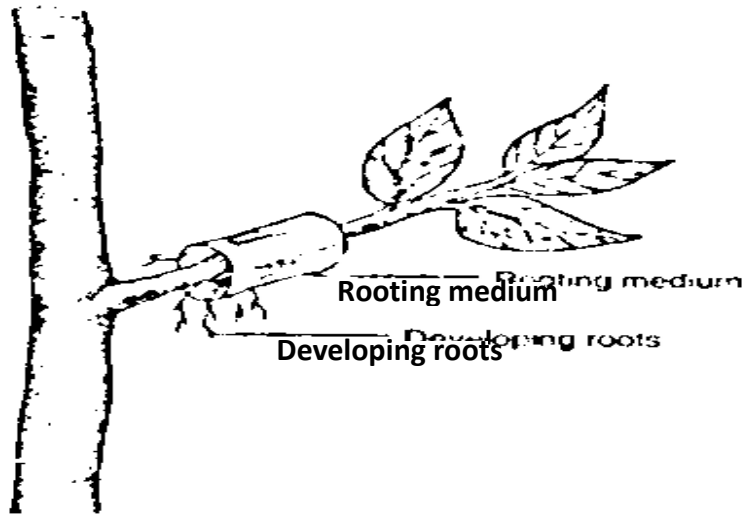
(2 marks)

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SECTION B (20 MARKS)

Answer ALL questions from this section in the spaces provided.

17. The diagram below shows a method of layering. Study it and answer the questions that follow.



a) Identify the method of layering illustrated above. **(1mk)**

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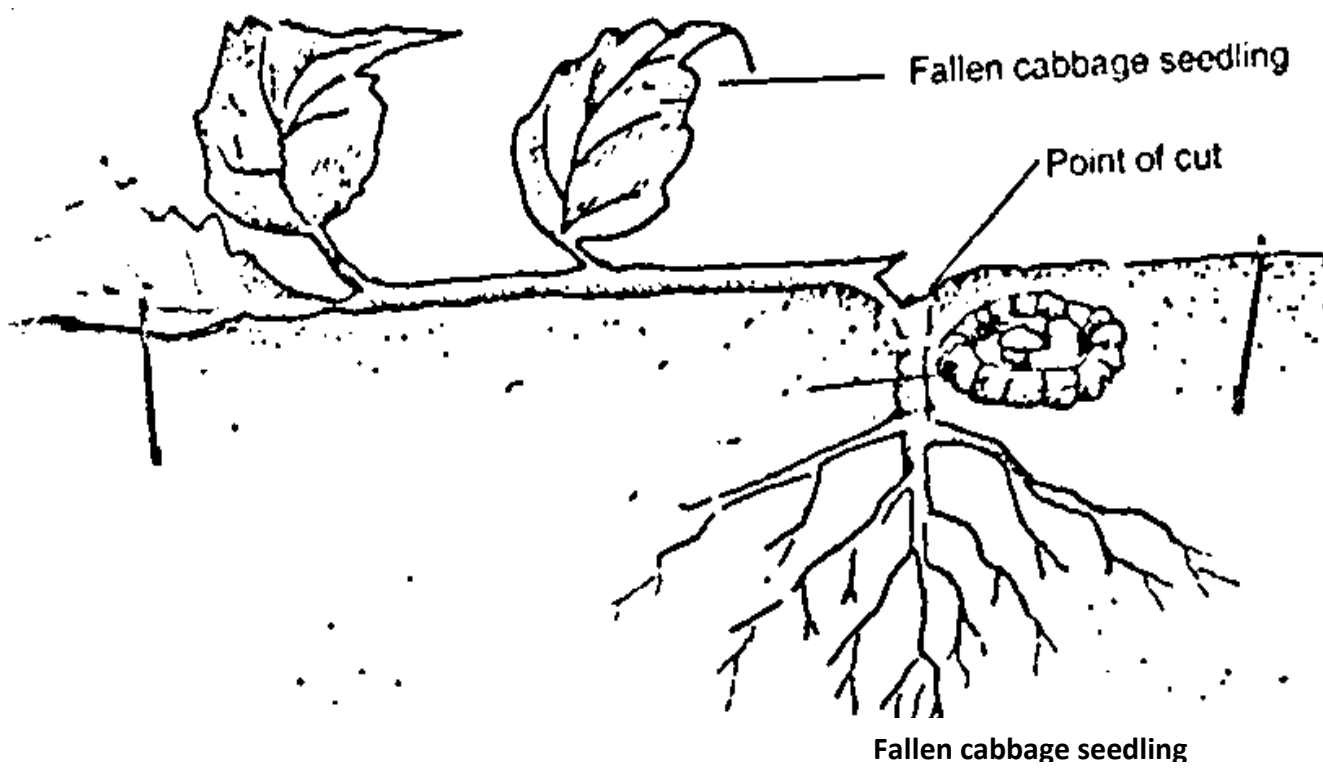
b) State **one** circumstance in which the method of layering indicated above is recommended. **(1 mk)**

c) Maize requires 120kg/ha of phosphorus pentoxide (P_2O_5). 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). **(2 marks)**

d) Distinguish between straight fertilizers and compound fertilizers. **(2 marks)**

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



a) Identify the pest Point of cut(1 mark)

b) State **three** methods of controlling the above pest (3 marks)

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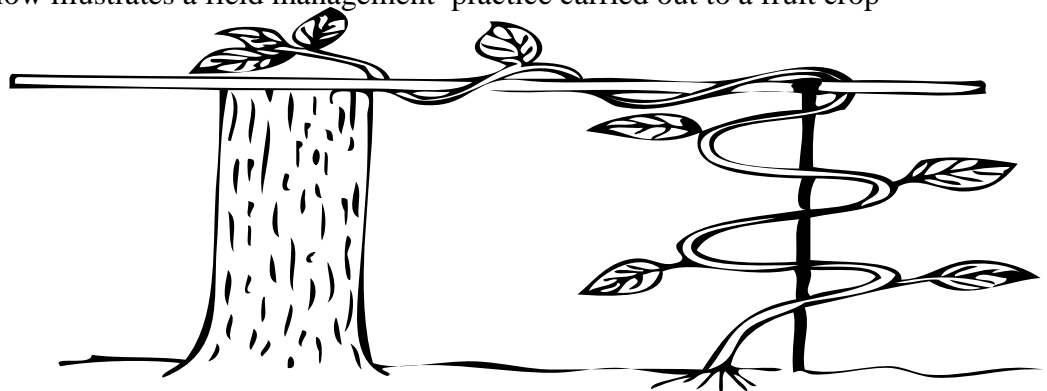
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.State **four** methods of harvesting water on the farm. (4marks)

19. The diagram below illustrates a field management practice carried out to a fruit crop



(a) i) Identify the practice illustrated above. (1mark)

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ii) Give **three** reasons for carrying out the practice illustrated in the above diagram. (3marks)

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(b) Give a reason why it is not advisable to use manure in carrot production. (1mark)

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SECTION C (40 MARKS)

Answer *only two* questions in this section in the spaces provided.

20. a) Describe the methods used in preparing materials in readiness for planting. (8 marks)
b) Explain the factors that may determine spacing of crop in the farm (8 marks)
c) Explain briefly the factors that influence timely planting. (4marks)

- 21 a) State and explain the uses of farm records to a farmer (10mks)
b) Explain how the following land reforms are carried out
i) Land consolidation (5mks)
ii) Land adjudication and registration (5mks)

22. a) Describe the environmental conditions that may lead to low crop yield (5mks)
b) Explain the factors of cultural methods of soil and water conservation (10mks)
c) Give FIVE advantages of overhead irrigation (5mks)

23. a) Explain the factors of cultural methods of soil and water conservation (15mks)
b) Give FIVE advantages of overhead irrigation (5mks)