

FORM FOUR END TERM ONE 2020

AGRICULTURE PAPER 1

SECTION A (30 MARKS)

Answer ALL the questions in this section in the spaces provided

1. List **three** characteristics of large scale farming system (1½ mks)

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2. Differentiate between grafting and budding (1mk)

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3. State **three** pieces of information contained in a land title deed (1½ mks)

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4. Distinguish between each of the following pairs of terms

- i) Pricking out and thinning (1mk)

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- ii) Nursery bed and a seedling bed (1mk)

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5. Give reasons for carrying out the following practices in a tomato nursery

- i) Avoid excess application of nitrogen (½mk)

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ii) Sinking the nursery bed below the ground level (½ mk)

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iii) Hardening off (½mk)

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6. Give **two** ways in which cut off drains control soil erosion (1 mk)

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7. State **six** ways through which soil loses fertility (3mks)

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8. Name **two** examples of potassic fertilizers (1mk)

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9. State **two** diseases of leaf that attack sorghum. (1mk)

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10 .Give **three** reasons why a farmer needs to conserve forage . (1½ mks)

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11. State **two** positive effects of high environmental temperatures on crop farming (1mk)

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12. State **four** biological methods of soil erosion control (2mks)

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13. Name **two** types of labour records (1mk)

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14. State **four** physical methods of pest control (1mk)

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15. Outline **three** reasons of top dressing a pasture land (1½ mks)

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16. State **three** symptoms of bacterial attack in crop production (1½ mks)

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17. State **four** factors which affect the quality of a silage. (2mks)

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18. State **two** conditions under which opportunity cost is zero in a farming enterprise. (1mk)

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19. Give **four** reasons of using certified seeds for planting . (2mks)

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20. State **four** factors that affect rooting of cuttings. (2mks)

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SECTION B (20MARKS)

Answer ALL Questions in this section

21. Below is a record format kept in the farm

Sow No.....	Sire No.....	Date of service	Date of farrowing		Remarks
Breed.....	Breed.....		Expected	Actual	
Sow1.....					
.....					
Sow 2					

a) Identify record format illustrated above (1mk)

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b) State **two** importance of a farmer keeping the type of records identified above (2mks)

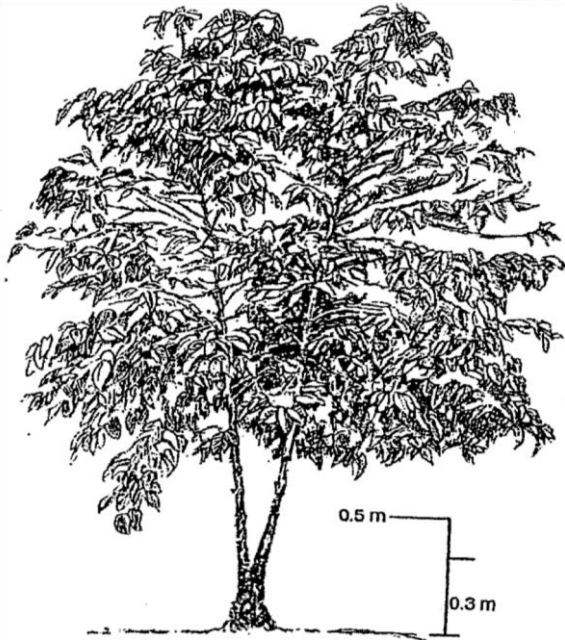
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c) Why do institutions loaning money (credit) to farmers insist on seeing farm records of the loan applicant? (1mk)

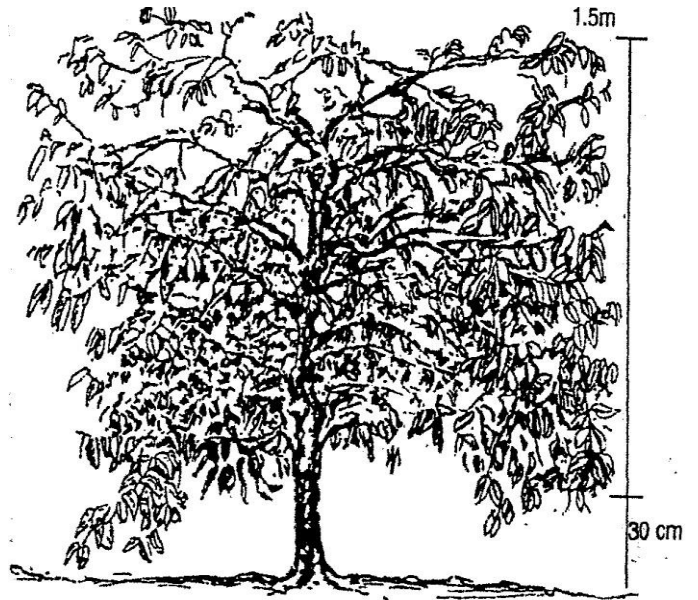
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22. The diagrams labeled **A** and **B** are illustrations of coffee established using two different formative pruning systems. Study them and answer the questions that follow.

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A



B

a) Name the system of pruning illustrated in diagram A and B above. (2mks)

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b) Outline the procedure of how the pruning illustrated in diagram B is carried out. (3mks)

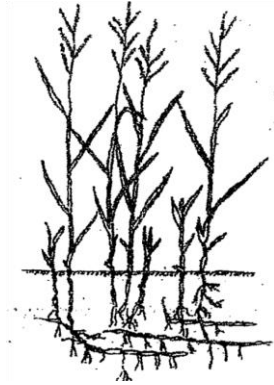
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23. The diagrams below show common weeds on arable land

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C



D

i) Identify the weeds

C.....

D.....

ii) Why is it difficult to control weed C (1mk)

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iii) Name **three** chemicals used to control weed C in a field of coffee (3mks)

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iv) State **two** harmful effect of weed D (2mks)

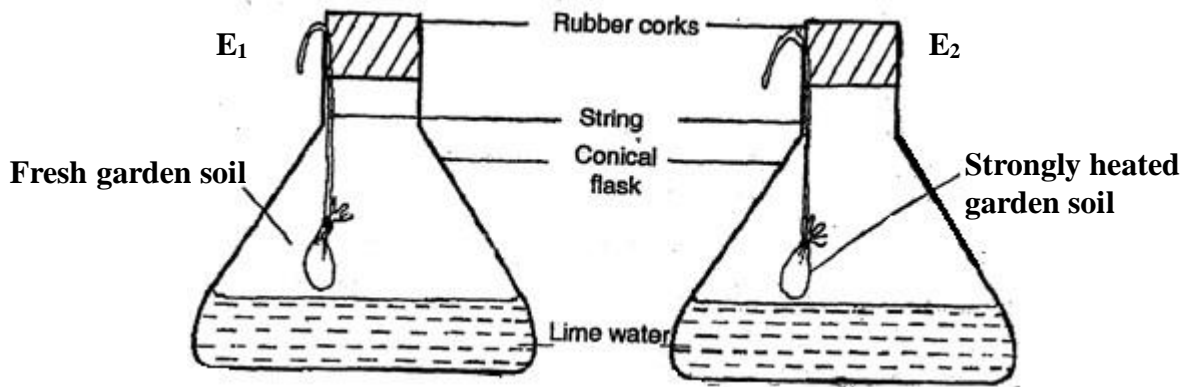
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24. The diagram below illustrates an experiment carried out by a form one boy. Study it carefully and answer the that follow

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The set ups were allowed to stand for five hours.

a) State the aim of the experiment. (1mk)

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..... b)

Explain the results expected in

i) Set up E₁ (1mk)

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ii) Set up E₂ (1mk)

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SECTION C (40MARKS)

Answer any two questions from this section

25 a) Explain **five** ways in which trees help in soil conservation. (5mks) b) State **five** uses of water on the farm. (5mks)

c) Describe the process of treating water for domestic use using chemical treatment system. (10mks)

26. Describe field production of maize for grains under the following.

i) Land preparation (4mks) ii) Harvesting. (3mks)

iii) State **three** precautions observed while harvesting cotton (3mks) 27

a) Describe transplanting of onions in the field. (10mks) b)

Explain the various factors that influence spacing in crops. (5mks)

