

# **FORM FOUR TERM ONE EXAM 2017**

**AGRICULTURE**

Paper 1

**Time: 2 Hours**

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This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

**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.....<br>Breed.....   | Sire No.....<br>Breed..... | Date of<br>service | Date of farrowing |        | Remarks |
|-----------------------------|----------------------------|--------------------|-------------------|--------|---------|
| Sow1.....<br>.....<br>Sow 2 |                            |                    | Expected          | Actual |         |

a) Identify record format illustrated above (1mk)

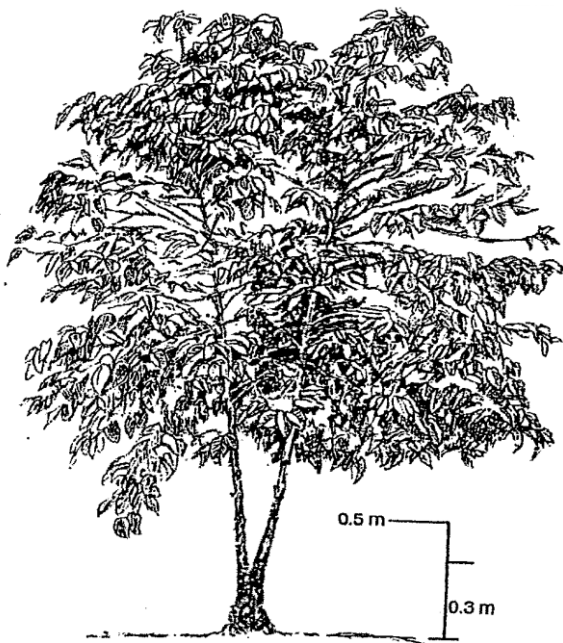
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b) State **two** importance of a farmer keeping the type of records identified above (2mks)

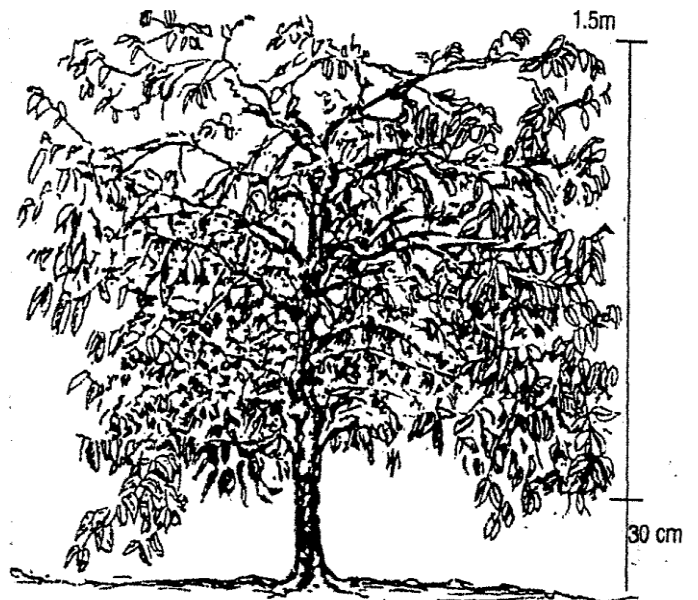
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c) Why do institutions loaning money (credit) to farmers insist on seeing farm records of the loan applicant? (1mk)

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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.



**A**



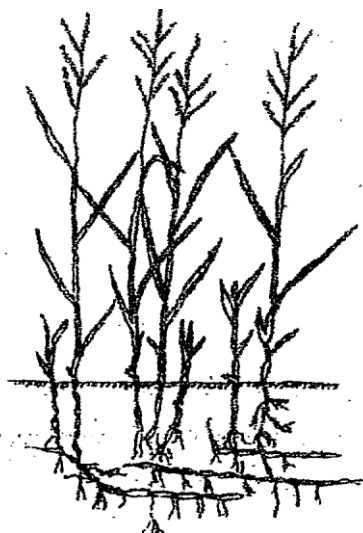
**B**

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



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)

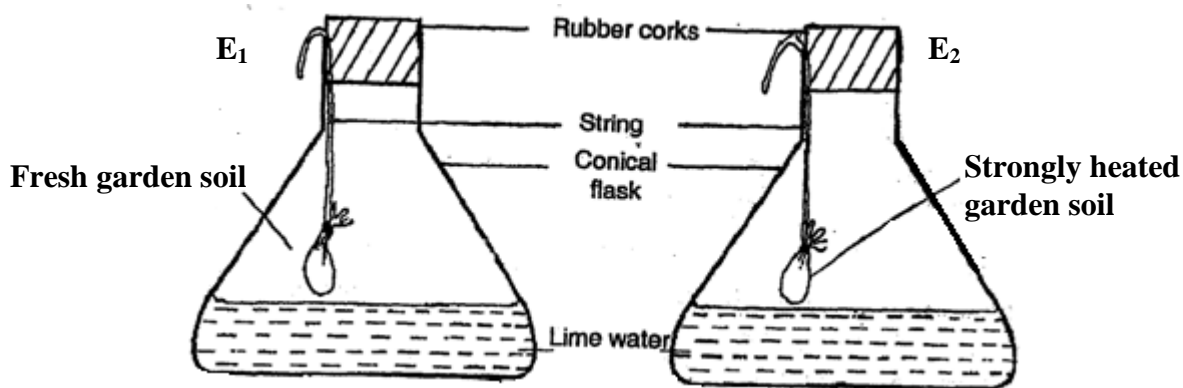
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iv) State **two** harmful effect of weed D

(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



The set ups were allowed to stand for five hours.

a) State the aim of the experiment.

(1mk)

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