**NAME:…………………………………………INDEX NO……………….**

**DATE:………………….**

**443/1**

**AGRICULTURE**

**FORM IV**

**PAPER I**

**TERM 1I, 2019**

**TIME: 2 HRS**

MOKASA II PRE-MOCKS 2019

**INSTRUCTIONS TO CANDIDATES**

* *Write your name and index number in the spaces provided*
* *This paper consist of three sections A, B and C*
* *Answer* ***ALL*** *questions in Section A, B and C*

|  |  |  |
| --- | --- | --- |
| **SECTION** | **MAXIMUM SCORE** | **CANDIDATE’S SCORE** |
| **A** | **30** |  |
| **B** | **20** |  |
| **C** | **40** |  |
| **TOTAL** | **90** |  |

**This paper consist of 10 printed pages. candidates should check the questions paper to ascertain that all the 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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1. Differentiate between grafting and budding (lmk)

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

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1. Distinguish between each of the following pairs of terms

i)Pricking out and thinning (lmk)

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…………………………………………………………………………………...……………………………….. ii)Nursery bed and a seedling bed (lmk)

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1. 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)

……………………………………………………………………………………………….……………………

…………………………………………………………………………………...………………………………..

iii) Hardening off ( ½mk)

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

### ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...………………………………..

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

### ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...……………………………….. ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...……………………………….. ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...……………………………….. ……………………………………………………………………………………………….……………………

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1. Name **two** examples of potassic fertilizers (lmk)

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…………………………………………………………………………………...………………………………..

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

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

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

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

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……………………………………………………………………………………………….…………………… 13. Name **two** types of labour records (lmk) ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...………………………………..

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

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

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1. 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***

1. Below is a record format kept in the farm

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

* 1. Identify record format illustrated above (lmk)

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

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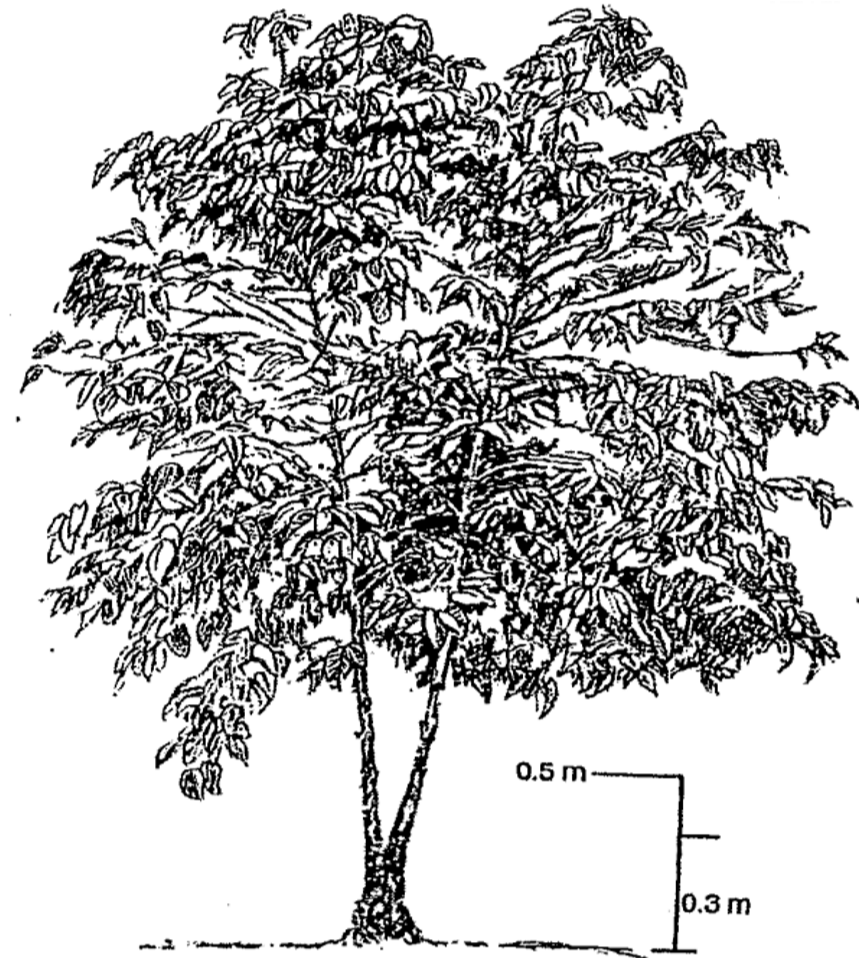
* 1. Why do institutions loaning money (credit) to farmers insist on seeing farm records of

the loan applicant? (lmk)

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1. 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)

### ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...……………………………….. ……………………………………………………………………………………………….……………………

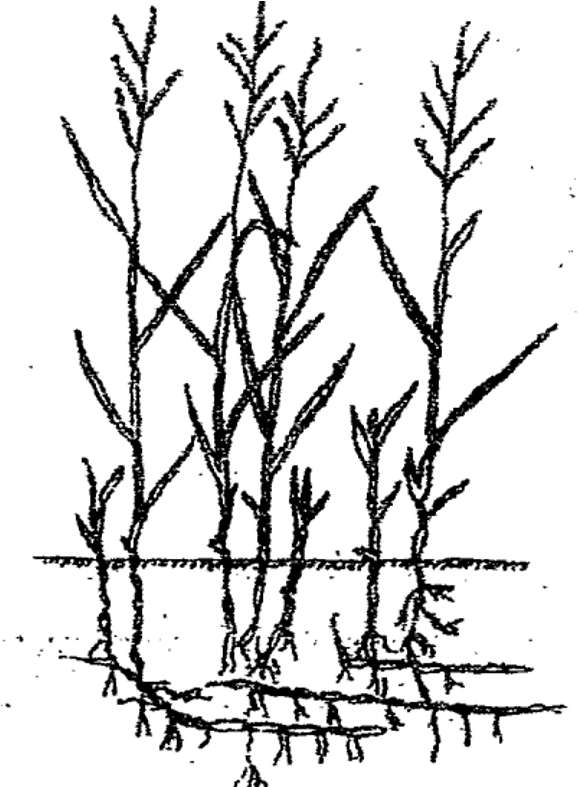
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b) Outline the procedure of how the pruning illustrated in diagram **B** is carried out. (3mks)

### ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...……………………………….. ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...………………………………..

23. The diagrams below show common weeds on arable land



 **C D**

i) Identify the weeds(2 mks)

**C**………………………………………………………………………

**D**………………………………………………………………………..

ii) Why is it difficult to control weed **C** (lmk)

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

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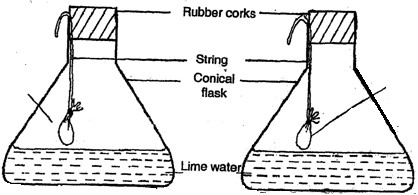
…………………………………………………………………………………...……………………………….. iv) State **two** harmful effects of weed **D** (2mks)

### ……………………………………………………………………………………………….…………………… …………………………………………………………………………………...………………………………..

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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



**Strongly heated**

**garden soil**

**Fresh**

**garden soil**

**E**

**1**

**E**

**2**

The set ups were allowed to stand for five hours.

a) State the aim of the experiment. (lmk)

### …………………………………………………………………………………...……………………………….. …………………………………………………………………………………...………………………………..

### b) Explain the results expected in

i)Set up **E1** (lmk)

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…………………………………………………………………………………...……………………………….. ii) Set up **E2** (lmk)

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## SECTION C (40MARKS)

***Answer ALL 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. (l0mks)

26.

a) Describe transplanting of onions in the field. (l0mks)

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

c) Describe the various types of farm records kept by a dairy farmer. (5mks)

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