**Name: …………………………………………………………Index No: ……………………..……………**

Candidate’s Signature:……………………………….

Date: ……………….……………….…

443/1

**AGRICULTURE**

Paper 1

MAY 2015

**Time: 2 Hours**

**TIGANIA SOUTH PRE-MOCKS 2015**

***Kenya Certificate of Secondary Education***

**AGRICULTURE**

Paper 1

MAY 2015

**Time: 2 Hours**

**INSTRUCTIONS TO CANDIDATES:**

* *This paper contains* ***three*** *sections A, B and C*
* *Answer* ***ALL*** *the questions in section A amd B*
* *Answer any* ***Two*** *questions from section C*
* *All answers should be written in the spaces provided.*

**FOR EXAMINERS USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAX SCORE** | **CANDIDATES SCORE** |
| **A** | **1-19** | **30** |  |
| **B** | **20-23** | **20** |  |
|  |  | **20** |  |
|  | **20** |  |
| **TOTAL** |  | **90** |  |

*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.*

1. State **two** types of farming systems . (1mrk)

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

2. State **two** advantages of concession company as land Tenure system. (1mrk)

……………………………………………………………………………………………………………………………………………………………………………………………………

3. (a) Define the term pasture. ( ½mrk)

 …………………………………………………………………………………………………

 (b) State **three** main ways in which pastures are classified . (1½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

4. Differentiate between mixed cropping and intercropping. (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

5. State **three** types of capital. (1 ½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

6. State **four** advantages of overhead irrigation. (2mrks)

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

7. State **four** factors influencing mass wasting or solifluction. (2mrks)

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

8. State **three** harmful effects of crop diseases. (1 ½ mrks)

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

9. State **two** functions of the coffee Board of Kenya. (1mrk)

……………………………………………………………………………………………………………………………………………………………………………………………………

10. Give **four** factors that determine the stage at which a crop of maize is harvested. (2mrks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

11. Name **three** vegetative parts used in the propagation of pineapples. (1 ½mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

12. State **three** symptoms of sulphur deficiency. (1 ½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

13. List **four** types of farm records kept by a rabbit farmer. (2mrks)

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

14. Name **three** forms that water exists in the soil. (1 ½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

15. State **four** methods used in land clearing. (2mrks)

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

16. Give **three** methods of controlling Blossom- end not in a crop of tomatoes. (1 ½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

17. State **four** benefits of weeds to farmers (2mrks)

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

18. (a) State **three** methods of weed control in a crop of rice (1 ½ mrks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

 (b) Define the term agroforestry. ( ½mrk)

……………………………………………………………………………………………………………………………………………………………………………………………………

***SECTION B(20MRKS)***

***Answer all question in this section***

19. The diagram below illustrate s a method of irrigation used on the farm. Study it carefully and answer the questions that follow.

1. Name the method of irrigation illustrated above. (1mrk)

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

1. Give **two** disadvantages of the above method. (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

1. Name **two** types of water pumps used to lift water on the farm. (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

20. The diagram below illustrate methods of pruning in crop production. Study them carefully and answer the questions that follow.

1. Name the methods of pruning illustrated in the Figure **A** and **B.** (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

1. Sate **two** where the method of pruning shown Figure **A** is recommended. (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

1. Give **two** systems of pruning in coffee. (1mrk)

………………………………………………………………………………………………………………………………………………………………………………………………

21. The diagram below shows common crop pests on the farm. Study them carefully and answer the questions that follow;

1. Name the parts represented by letter **D** and **E.** (2mrks)

**D**…………………………………………………………………………………

**E**……………………………………………………………………………….

1. State **two** damages of pest **D** (2mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

1. State **one** control measures of pest **E**  (1mrk)

……………………………………………………………………………………………..

22. The illustration below represent common weeds on the farm . Study them and answer the questions that follow.

1. Name The weeds represented by letters **K,L**,and**M**. (3mrks)

………………………………………………………………………………………………………………………………………………………………………………………………

………………………………………………………………………………………………

1. State **one** reason why weed **M** is difficult to control (1mrk)

……………………………………………………………………………………………

1. Suggest **one** effective method of controlling weed **M**  (1mrk)

………………………………………………………………………………………….

***SECTION C940MARKS)***

***Answer any two questions in this section in the spaces provided***

23. State and explain factors influencing soil erosion (20mrks)

24. Describe the production of maize (zea mays) under the following headings

 (a) Uses (3mrks)

 (b) Land preparation (3mrks)

 (c) Planting (5mrks)

 (d) Fertilizer Application (3mrks)

 (e) Disease (4mrks)

 Harvesting (2mrks)

25. (a) State and explain the factors considered when seleting a nursery site. (10mrks)

 (b) State and explain five nursery management practices carried out on tomato seedlings

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

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