**MARANDA HIGH SCHOOL**



**Kenya Certificate of Secondary Education**

**PRE MOCK 2024**

**443/1 AGRICULTURE Paper 1**

**March 2024 – TIME: 2Hours**

**Name**: ………………………………………………….... **Adm** **No**: ……….……

**Class**: ……………… **Index No. …………………** **Date**: …..…/03/2024.

**INSTRUCTIONS TO CANDIDATES**

* *Write your name, index number, admission number and class in the spaces provided. Sign and write the date in the spaces provided above.*
* *Answer* ***all*** *the questions in section A and B. Answer any* ***two*** *questions in section C.*
* *Answers should be written in the spaces provided.*

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTIONS** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| **A** | **1-15** | **30** |  |
| **B** | **16 - 19** | **20** |  |
|  | **20** | **20** |  |
| **21** |  |  |
| **22** | **20** |  |
| **TOTAL** |  | **90** |  |

**SECTION A (30 marks)**

**Answer ALL questions from this section**.

1. State **four** roles mulching in soil and water conservation. (2 marks)

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2. State **four** factors that reduce spacing in crop production. (2 marks)

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3. Give **four** advantages of mixed farming. (2 marks)

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4. List **four** factors that influence the choice of fertilizer to be used in the farm.

(2 marks)

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5. State **four** parameters which measure the national economic development of a country. (2 marks)

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6. List **four** factors that hinder access to enough clean water in the farm. (2 marks)

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7. Give **four** reasons why communal land tenure is commonly practiced in pastoral nomadic area. (2 marks)

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8. Give **four** effects of high temperature in horticultural farming. (2 marks)

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9. State **four** farming practices that destroy soil structure. (2 marks)

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10. Give **four** reasons why a farmer should avoid minimum tillage in a coffee farm. (2 marks)

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11. State **four** disadvantages of broadcasting seeds in the field. (2 marks)

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12. Give **four** factors that determine the depth of planting. (2 marks)

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13. State **four** advantages of budding in orange production. (2 marks)

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14. Give **four** reasons of ridging in tuber crop production. (2 marks)

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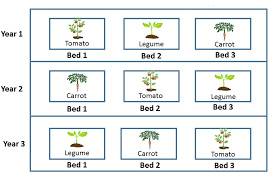
15. Give **four** factors that determine the size of a water storage tank. (2 marks)

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**SECTION B (20 marks)**

**Answer all the questions in the spaces provided.**

16. The picture below shows the practices used in the farm.



a) Identify the practice. (1 mark)

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b) State **two** factors that determine the choice of crops to be used in the above practices. (2 marks)

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c) Give **two** ways the practice above benefit the farm. (2 marks)

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17. A form two student found a pest on a tomato fruit feeding with its head inside the fruit and thw3 rest part of the body outside.

a) Identify the pest. (1 mark)

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b) Give **one** economic importance of the pests and diseases. (2 marks)

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c) Give **three** cultural methods of controlling the pest identified in (a) above.

(3 marks)

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18. The diagram below shows an arable weed.



a) Identify the weed. (1 mark)

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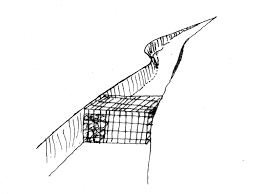
b) Give **three** effects of the weed in the cereal crops. (3 marks)

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c) State the reason why mechanical control of the above weed should be avoided during flowering stage in cereal crops. (1 mark)

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19. The following is an illustration of soil and water conservation method.



(a) Identify the diagram illustrated above. (1 mark)

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(b) List **two** materials used to construct the structure illustrated above. (2 marks)

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(c) Give **two** ways in which the structure identified above control soil erosion.

(2 marks)

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**SECTION C (40 marks)**

**Answer any two questions from this section in the spaces provided after question 22.**

20. (a) Explain **six** advantages of pruning in crop production. (6 marks)

(b) Explain **four** cultural methods used to control soil erosion. (4 marks)

(c) Explain **two** ways in which each of the following factors influences crop production.

(i) Level of education and technology. (2 marks)

(ii) Cultural factors. (2 marks)

(iii) Government policy. (2marks)

(d) Outline **four** ways of improving labour productivity in the farm. (4 marks)

21. (a) Describe **ten** precautions a farmer should take when using herbicides. (10 marks)

(b) Explain **ten** methods of harvesting water in the farm. (10 marks)

22. (a) Give **five** pieces of information kept in breeding record on dairy farm.

(5 marks)

(b) Explain the advantages of using seeds as planting material. (9 marks)

(c)Give **six** benefits of establishing the tree seedlings in a containerized nursery bed. (6 marks)

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