



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education
PRE-MOCK EXAMINATIONS 2022

FORM FOUR

AGRICULTURE

Paper 1

443/1

JUNE 2022 – TIME: 2Hours

Name: _____

Adm No: _____

Class: _____

Date: 22/ 06 /2022.

INSTRUCTION TO CANDIDATES

- Write your *name, admission number and class* in the spaces provided above.
- This paper consists of **THREE** sections; **A, B and C**.
- Answer **All** the questions in section **A and B** in the spaces provided and any **TWO** questions from section **C** in the answer sheet provided

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 - 17	30	
B	18 - 22	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all the question in this section in the spaces provided.

1. Name the routine field practice done by:
- (a) Removal of extra suckers in banana stool. (½mk)
-
- (b) Removal of old stems down to level of top foliage in pyrethrum. (½mk)
-
- (c) Removal of suckers from coffee bushes. (½mk)
-
2. State **three** characteristics of phosphate fertilizers. (1½mks)
-
-
-
-
3. State **two** physical properties of soil that influence crop production. (1mk)
-
-
-
4. Outline **four** ways by which crop pests are classified. (2mks)
-
-
-
-
-
5. State **three** uses of labour records in Agriculture. (1½mks)
-
-
-
-

6. Give **four** advantages of overhead irrigation in crop production. (2mks)

7. List **three** basic concepts in agricultural economics. (1½mks)

8. Give **four** varieties of tomatoes grown for processing. (2mks)

9. State **four** pasture management practices done to enhance yields per unit area. (2mks)

10. Name **two** macro-nutrients which classified as:
(a) Fertilizer elements. (1mk)

(b) Liming elements.

(1mk)

11. Give **three** ways by which pruning helps to control disease in crops. (1½mks)

12. State **four** ways in which weeds are excellently adapted to the environment. (2mks)

13. State **four** factors that determine the time at which a crop is planted. (2mks)

14. Give **four** factors that affected the effectiveness of a pesticide. (2mks)

State **four** reasons for staking tomatoes in crop production.

(2mks)

16 State **three** cultural methods of soil and water conservation.

(1½mks)

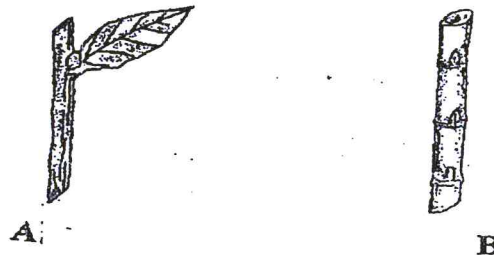
17. State **four** benefits of having a land title deed to a farmer.

(2mks)

SECTION B. (20 MARKS)

Answer ALL questions in this section in the spaces provided

18. Study the diagram below and answer the questions that follow. The illustrations represent a method of crop propagation.

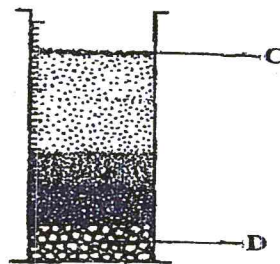


- (a) Name the crops propagated by illustrations: (2mks)

A _____ B _____

- (b) Give **three** factors that promote the rooting of illustration A. (3mks)

- 19 The diagram below illustrates an experiment using garden soil. Study it carefully and answer the questions that follow.



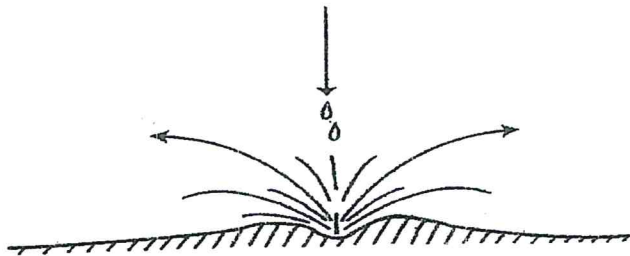
- (a) What was the aim of the experiment? (1mk)

- (b) Name the parts labeled C and D. (2mks)

C _____ D _____

- (c) Name the property of soil being investigated. (1mk)

20. The illustration below shows a type of soil erosion. Study it carefully and answer the questions that follow.

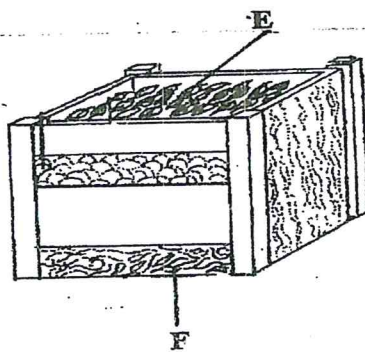


- (a) Identify the type of erosion illustrated above. (1mk)

- (b) Give two soil factors that influence the rate of soil erosion. (2mks)

- (c) Name one agent of soil erosion. (1mk)

21. The diagram below represents a method of manure preparation. Study it carefully and answer the questions that follow.



- (a) Identify the type of manure being prepared. (1mk)

- (b) Name the parts labeled E and F. (2mks)

E _____ F _____

- (c) Give **four** disadvantages of manures. (4mks)

SECTION C (40MARKS)

Answer any two questions from this section in the spaces provided after question 24.

22. (a) Describe land preparation for planting of grass seeds. (4mks)
- (b) Explain the precautions that should be observed during the harvesting of pyrethrum. (4mks)
- (c) Explain **six** benefits of land consolidation in Agricultural production. (12mks)
- 23.(a) Describe the field management practices that should be carried out on dry bean production. (10mks)
- (b) Explain **five** factors that should be considered when deciding on the depth of planting a seed. (5mks)
- (c) Describe the characteristics of a crop suitable for green manure. (5mks)
24. (a) Describe the procedure followed when collecting a soil sample from the field for testing in the laboratory (5mks)
- (b) Describe the benefits of using certified seeds in crop production. (5mks)
- (c) Describe the safety precautions a farmer should take when using herbicides. (10mks)
