



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

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

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

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

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

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(b) Liming elements.

(1mk)

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

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

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

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

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

(2mks)

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

(1½mks)

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

(2mks)

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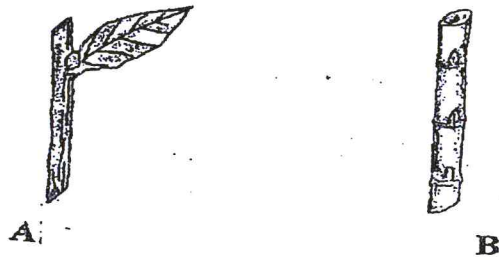
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**SECTION B. (20 MARKS)**

**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.



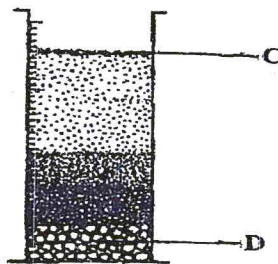
- (a) Name the crops propagated by illustrations: (2mks)

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)

\_\_\_\_\_

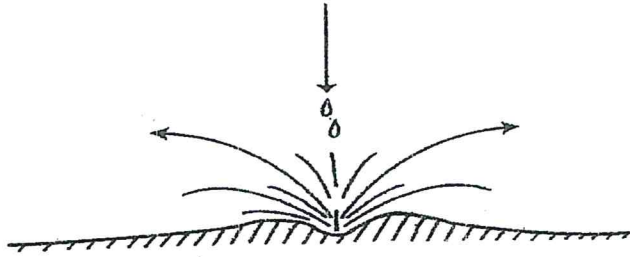
- (b) Name the parts labeled C and D. (2mks)

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.

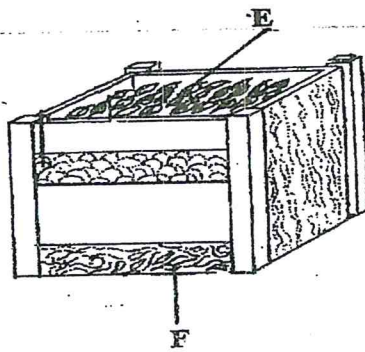


- (a) Identify the type of erosion illustrated above. (1mk)

- (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)

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**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)

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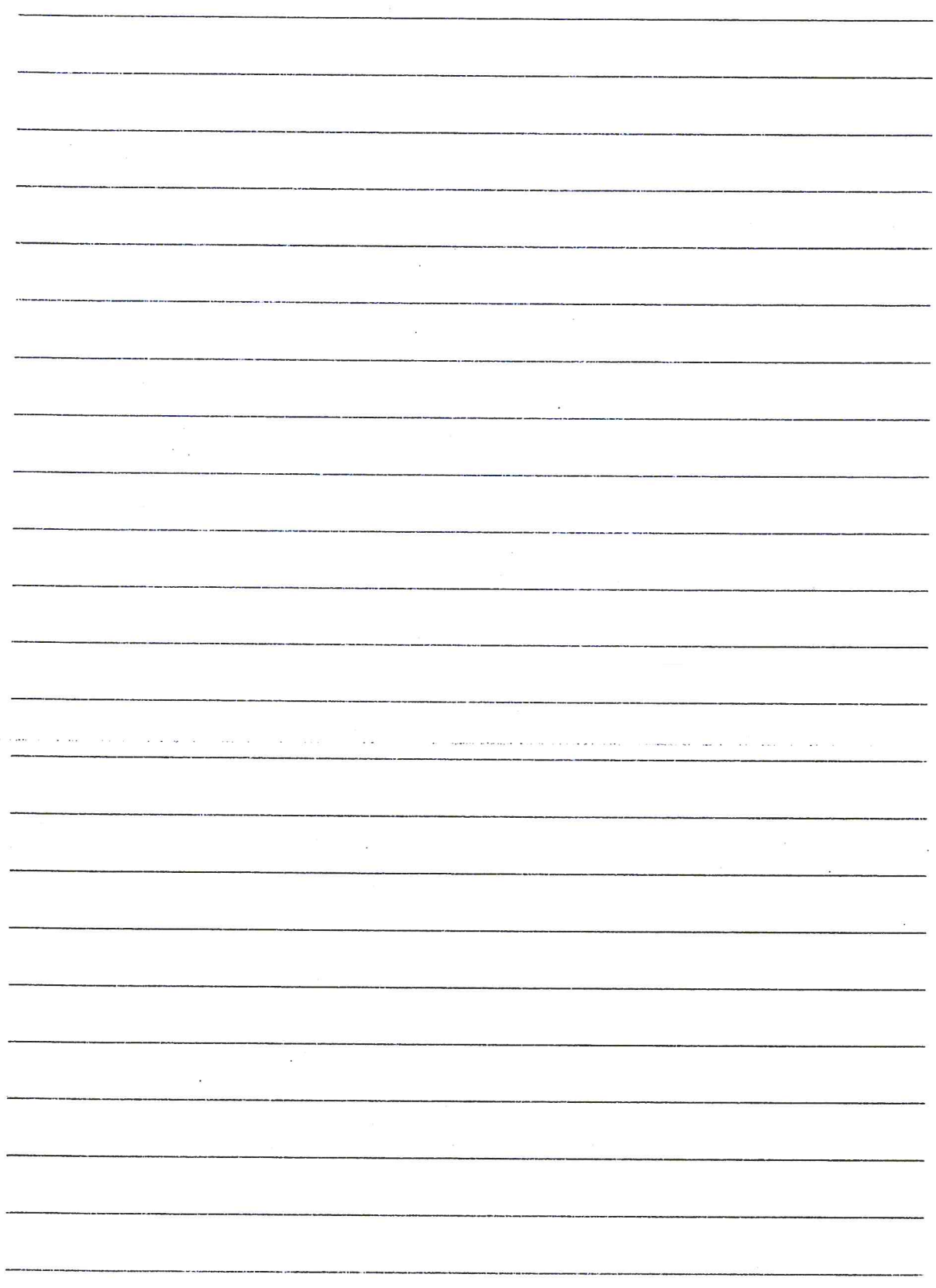
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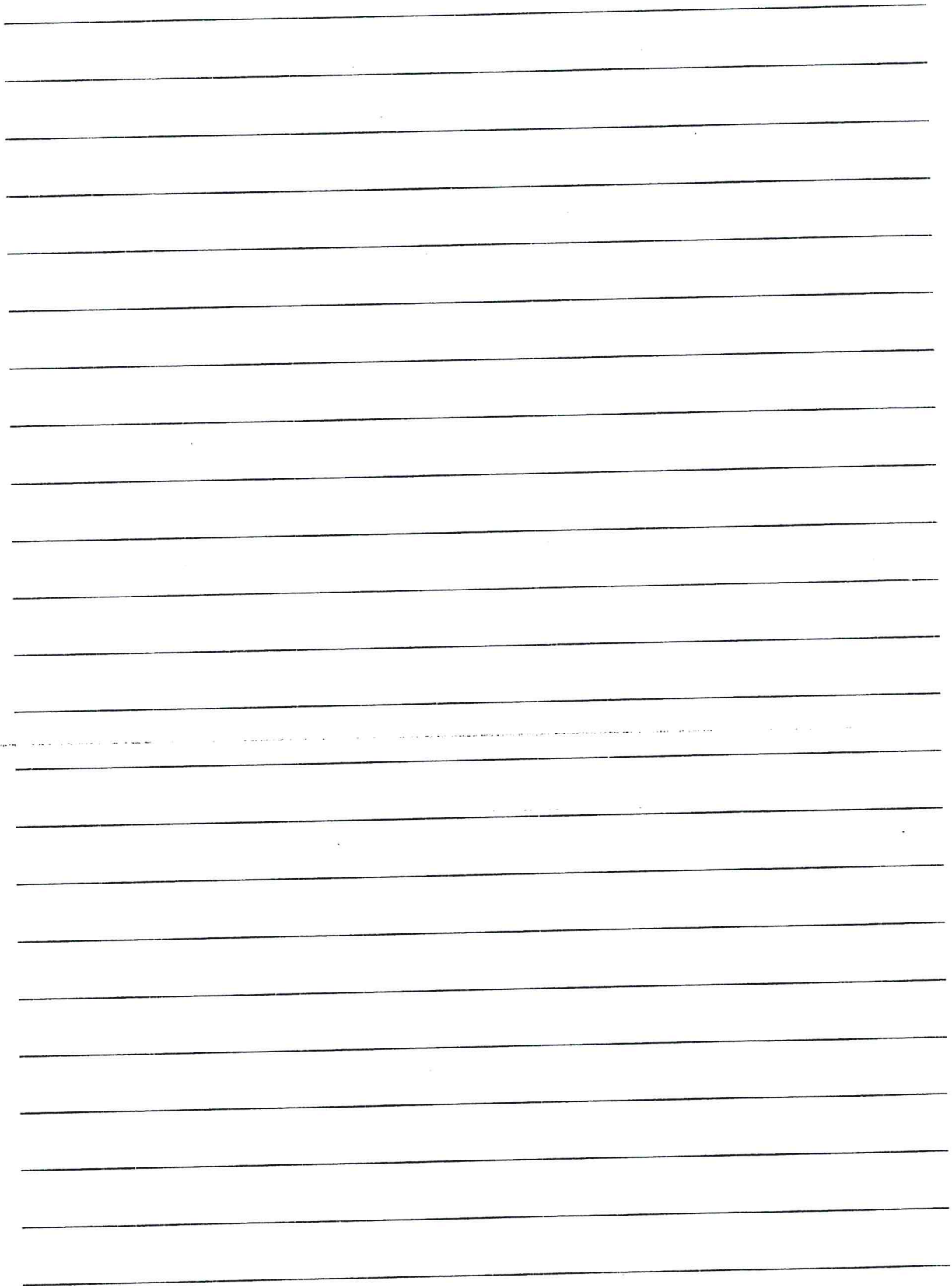
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A series of 20 horizontal lines for writing, spaced evenly down the page.





Handwritten notes on lined paper, including the word "LITERATURE" at the top left.