

Name: \_\_\_\_\_ Index Number: \_\_\_\_\_

Stream: \_\_\_\_\_ Date: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

443 /1

AGRICULTURE

PAPER 1

TIME: 2 HOURS

## **NYAHOKAKIRA MOCK EXAMINATIONS 2024**

Kenya Certificate of Secondary Education

**JULY EXAMINATION 2024**

**FORM FOUR EVALUATION TEST**

### **INSTRUCTIONS TO CANDIDATES**

- (a) *This paper consist of three section A, B and C*
- (b) *Answer all questions in section A and B in the spaces provided in the paper*
- (c) *Answer any two questions from section C on the foolscap provided.*

<b>SECTION</b>	<b>QUESTION</b>	<b>MAXIMUM SCORE</b>	<b>CANDIDATES SCORE</b>
A	1 – 17		
B	18 - 21		
C	22 - 24		
<b>TOTAL SCORE</b>			

**SECTION A: (30 MARKS)**

1. State two characteristics of large scale farming system. (1mk)

---

---

2. Give four reasons why famers are encouraged to practice organic farming (2mks)

---

---

---

---

3. State four methods of clearing land (2mks)

---

---

---

---

4. a) Define the term agroforestry. (2mks)

---

---

b) State four sites recommended for agroforestry tree planting (2mks)

---

---

---

---

5. State four human factors that influence Agriculture. (2mks)

---

---

---

---

6. List three physical factors influencing soil formation. (1½mks)

---

---

---

7. Name three biotic factor influencing Agriculture positively. (2mks)

---

---

---

8. State two possible causes of hardpan. (1mk)

---

---

9. State four advantages of harrowing during land preparation. (2mks)

---

---

---

---

10. State four different types of irrigation that can be used by farmers. (2mks)

---

---

---

---

11. Mention two methods of storing water. (1mk)

---

---

12. Outline what happens in the following stages of chemical water treatment. (2mks)

i) Second filtration \_\_\_\_\_

ii) Softening of water \_\_\_\_\_

iii) Chlorination \_\_\_\_\_

iv) Co-agulation and sedimentation \_\_\_\_\_

---

13. State four factors that determine the quality of compost manure (2mks)

---

---

---

---

14. a) State any two conditions under which opportunity cost is zero. (1mk)

---

---

b) A farmer has the option of growing either wheat or maize in his one hectare of land. Wheat gives a return of shs. 20000 while maize gives a return of shs. 3500. What will be the opportunity cost? (2mks)

---

---

---

15. a) What is meant by the term land reform? (½mk)

---

---

b) Mention any four pieces of information contained in land title deed. (2mks)

---

---

---

---

16. Give four advantages of practicing crop rotation. (2mks)

---

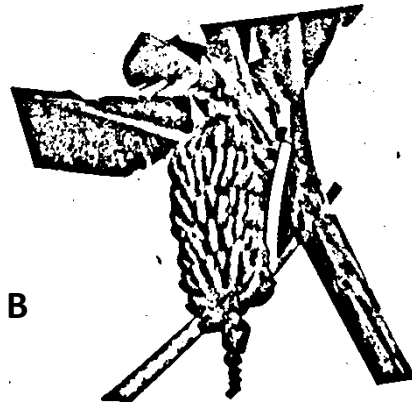
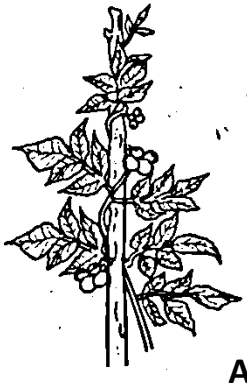
---

---

---

**SECTION B: (20 MARKS)**

The diagram below illustrates some field practices carried out on certain crops.



a) Identify the practices illustrated A and B. (2mks)

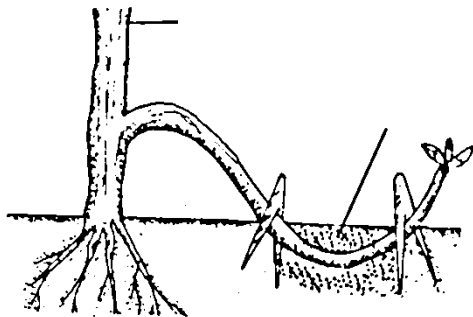
A: \_\_\_\_\_

B: \_\_\_\_\_

b) State three importances of carrying out practice marked A. (3mks)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

17. The diagram below is illustrating a method of crop propagation. Study it carefully then answer the questions that follows



a) Name the method of propagation illustrated above. (1mk)

\_\_\_\_\_

b) Give two ways of initiating faster root development in the propagation method shown above. (2mks)

\_\_\_\_\_  
\_\_\_\_\_

- c) What would make it necessary for a farmer to choose the above method of propagation instead of using cuttings? (2mks)
- 

18. In a maize production enterprise carried out over a period of eight years, a farmer used one hectare of land each time and applied different quantities of DAP fertilizer. DAP fertilizer costs ksh. 2500 per 50kgs bag and the harvested maize is sold at kshs. 3000 per 90kg bag. The quantities of DAP fertilizer applied and maize harvested are as shown in thus table below

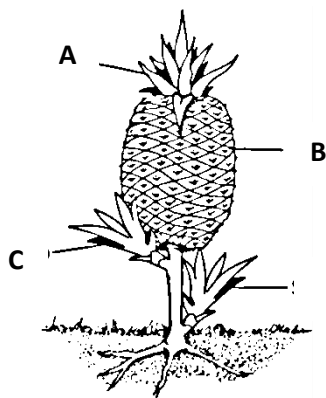
DAP fertilizer input in 50kg bag	Maize yield in 90kg bags	Total revenue kshs	Total costs kshs	Marginal revenue kshs	Marginal cost kshs
0	15.0	45000	0	0	0
1	35.6				
2	52.0				
3	68.5				
4	71.0				
5	71.5				
6	71.5				
7	68.5				

- a) Complete the table by determining the values of total revenue, total cost, marginal revenue and marginal cost. (2mks)
- b) From the information in your table, how can the farmer determine the level of production at which profit is maximum? (1mk)
- 

- c) At the production level that yield maximum profit, what was the value of each of the following?
- i) DAP fertilizer input. (1mk)
- 

- ii) Marginal revenue (1mk)
-

19. The diagram below illustrates a type of fruit crop. Study it and answer the questions that follow



a) Identify the crop. (1mk)

---

b) Name the parts A and B (2mks)

A: \_\_\_\_\_

B: \_\_\_\_\_

c) Name two parts used for propagation of the plant above. (2mks)

---

**SECTION C: (40 MARKS)**

20. a) Describe the product of carrots under

- i) Land preparation (2mks)
- ii) Planting (4mks)
- iii) Field practices (4mks)

b) Describe paddy rice production under

- i) Seed bed preparation (4mks)
- ii) Water management (6mks)

21. a) Explain the cultural methods of controlling weeds. (10mks)

b) Describe seven cultural methods of soil and water conservation. (7mks)

c) Explain three factors that determine the quality of hay. (3mks)

22. a) State five ways of improving labour productivity in the farm. (5mks)

b) State and explain six cultural methods of pest control. (12mks)

c) Describe three characteristics of trees used in agroforestry. (3mks)

Lined writing area consisting of 25 horizontal lines.





Lined writing area with 27 horizontal lines.