

MASENO SCHOOL
Kenya Certificate of Secondary Education 2021

Agriculture - Paper 1

DEC. 2021 - 2 hours

THE MASENO SCHOOL MOCK

INSTRUCTIONS TO CANDIDATES

1. This paper consists of three section A,B and C
2. Answer ALL the questions in section A and B and any TWO questions in section C.
3. Answers to be written in the spaces provided only.

FOR OFFICIAL USE ONLY

SECTION	MAX. SCORE	ACTUAL SCORE
A	30	
B	20	
C	40	
TOTAL	90	

Section A - 30 marks

Answer all the questions in the spaces provided

1. State **four** aspects of rainfall that are important in Agriculture. (2 marks)

2. State **four** factors which determine the depth of ploughing during seedbed preparation. (2 marks)

3. Give **four** reasons for subsoiling on a piece of land. (2 marks)

4. Give a reason for carrying out each of the following practices in a vegetable farm.

(i) pricking out. _____ (½mk)

(ii) Hardening off _____ (½mk)

5. Mention any **four** advantages of land consolidation as practiced in Agriculture. (2 marks)

6. State **two** non-chemical methods of controlling storage pests in the granary. (1 mark)

7. State **four** precautions that should be taken when harvesting tea. (2 marks)

8. List **three** disadvantages of drip irrigation. (1 ½ marks)

9. State **four** characteristic of nitrogenous fertilizer. (2 marks)

10. List **four** micro-catchment systems. (2 marks)

11. List **three** methods of fertilizer application in crops production. (1 ½ marks)

12. State three forms of soil water. (1 ½ marks)

13. State three methods of cutworms control.

(1 ½ marks)

14. Give four conditions required for settlement scheme to be successful.

(2 marks)

15. Give three reasons for stooking maize.

(1 ½ marks)

16. State four ways in which soil profile influence crop production.

(2 marks)

17.(a) State three ways in which inorganic mulch helps to conserve water in the soil.

(1 ½ marks)

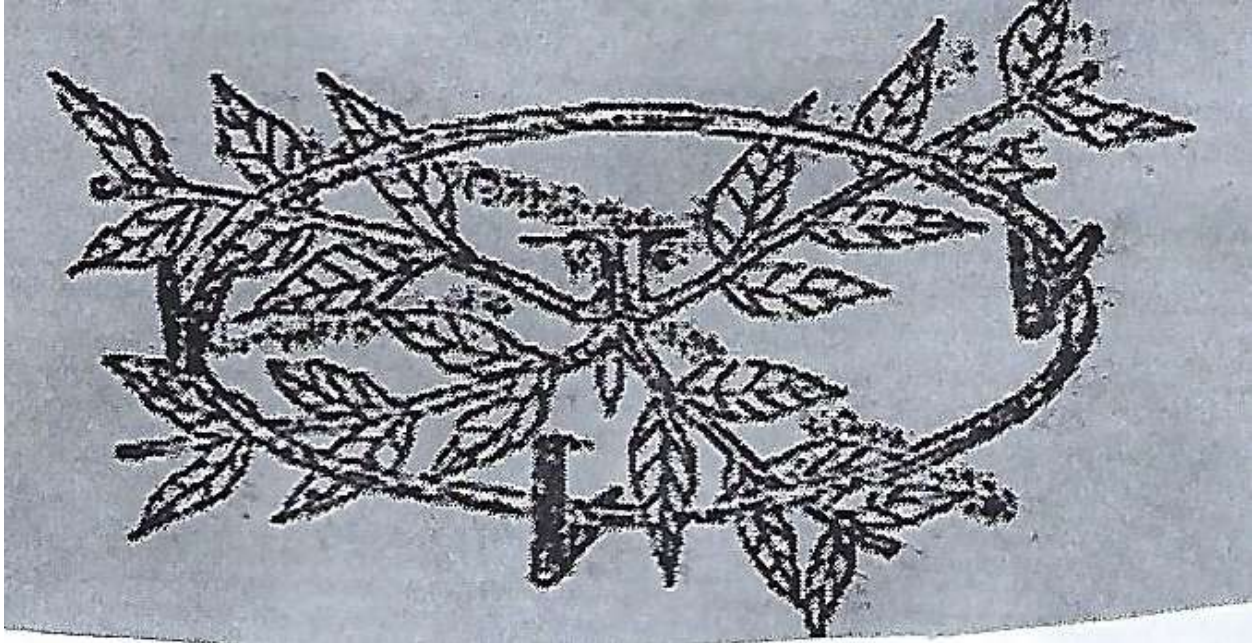
(b). State two factors that influence wind erosion.

(1 mark)

Section B (20 marks)

Answer all the questions in the spaces provided.

18. The diagram below shows a method of bringing tea into bearing. Study it carefully and use it to answer the questions that follow.

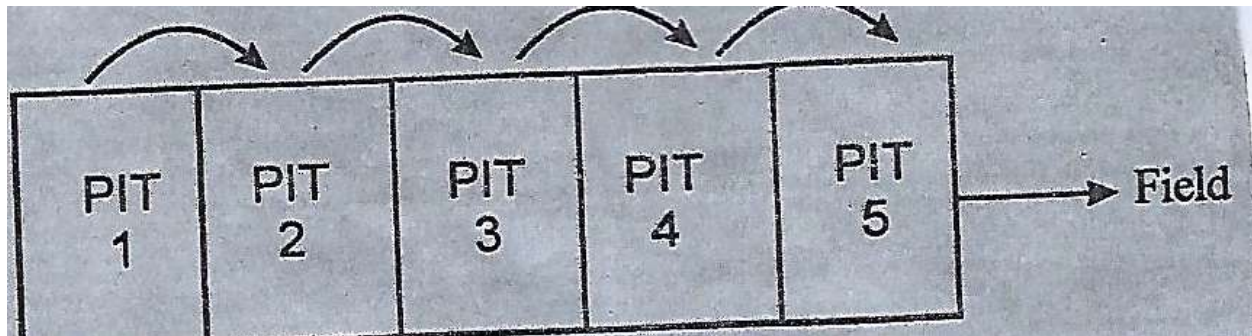


(i). Identify the method shown in the diagram. (1 mark)

(b) Why is it necessary to prune a young tea plant as illustrated in the diagram above. (1 mark)

(c) Outline the procedure followed when using the pruning method shown. (3 marks)

19. The following diagram shows a method of compost preparation.



(a,) Identify the method. (1 mark)

(b). Give four factors that should be considered when siting the compost pit. (2 marks)

(c) State two factors that determine the time the manure would be ready for use in the field. (2 marks)

20. The diagram below shows a field crop pest. Study the diagram and answer the questions that follow.



(a). Identify the pest.

(1 mark)

(b) Outline two harmful effects of the pests.

(2 marks)

(c) State two methods which are used to control the pests.

(2 marks)

21. The illustrations labelled E-G below represents common weeds in pasture land. Study them carefully and answer the following questions.



(a). Identify the weeds labelled E-G .

(1 ½m marks)

(b). Name the major problems posed by each of the specimen

E – G when in pasture land

(1 ½ marks)

(c). Give two reasons why the three type of weeds may overtake and smoother pasture species when they are allowed to grow together.

(3 marks)

SECTION C (40 marks)

Answer any two questions.

22.(a). Describe the production of Napier grass under the following sub-heading;

(a). Varieties

(2 marks)

(b). Land preparation.

(4 marks)

(c) Planting

(2 marks)

(d)Harvesting

(2 marks)

(b). State five factors considered when designing a crop rotation programme.

(5 marks)

(c) State five effects of land fragmentation.

(5 marks)

23(a) Explains five biological measures used to conserve soil and water in the farm. (10 marks)

(b) State five reasons for carrying minimum tillage.

(5 marks)

(c) Outline five ways government policy contributes to Agriculture.

(5 marks)

24.(a) explain five cultural measures to control pests.

(10 marks)

END