

NAME.....

ADM NO.....

STREAM.....

DATE

SIGN

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

MOMALICHE SCHOOLS FORM 4,MOMALICHE 3,CYCLE 8- SEP-OCT,2021

INSTRUCTIONS TO CANDIDATES

- ▶ Write your **name** and **index** number and school, Sign and write the date 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 - 18	30	
B	19- 23	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A(30MKS)

1. Why is ranching becoming more and more common in Kenya?
(1mk)

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2. State Three factors that determine depth of cultivation. (1
½ mks)

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3. What is the function of the wood ash in the preparation of compost manure?
(½ mk)

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4. State Four ways on how Government policy influence Agricultural production.
(2mks)

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5. State two types of labour records.
(1mk)

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6. Differentiate between a straight fertilizer and a compound fertilizer.
(2mks)

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7. Give an example of a crop in which the following vegetative propagation materials are used. (2mks)

(a) Splits:

(b) Slips:

8. Name two methods of frame formation in pruning of tea. (1mk)

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9. What is meant by the term changing the cycle in Coffee growing? (1mk)

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10. Give Four reasons for carrying out pruning in crops. (2mk)

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11. State four factors affecting the efficiency of pesticides. (2mks)

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12. List four factors that determine quality of hay. (2mks)

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13.State four factors influencing land fragmentation and sub-division.
(2mks)

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14.Differentiate between Topping and Topdressing.
(2mks)

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15.State Four advantages of using certified seeds.
(2mks)

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16.Define the following terms as used in Crop production.
(a) Hardening off.

(1mk)

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(b) Pricking out.

(1mk)

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17.State any Four biotic factors influencing crop production.

(2mks)

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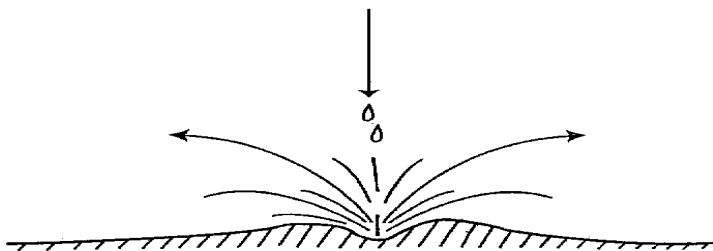
18.State any four methods of fertilizer application.

(2mks)

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SECTION B (20MKS)

19.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.

(1mrk)

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

(2mrks)

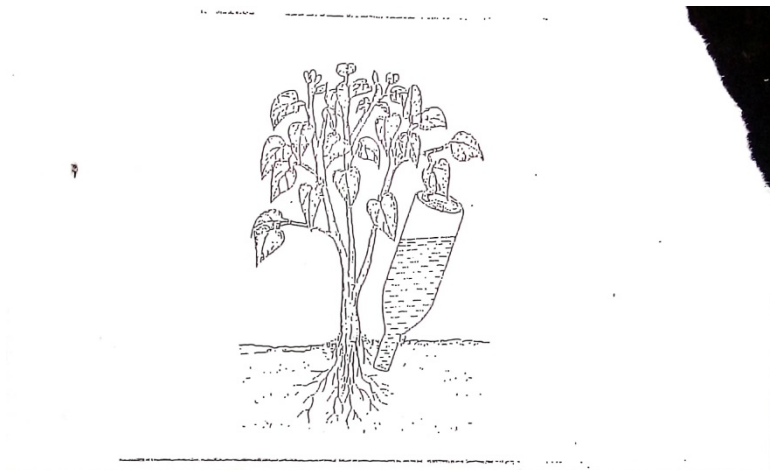
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(c) Name one agent of soil erosion.

(1mrk)

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20. The diagram below shows a method of irrigation.



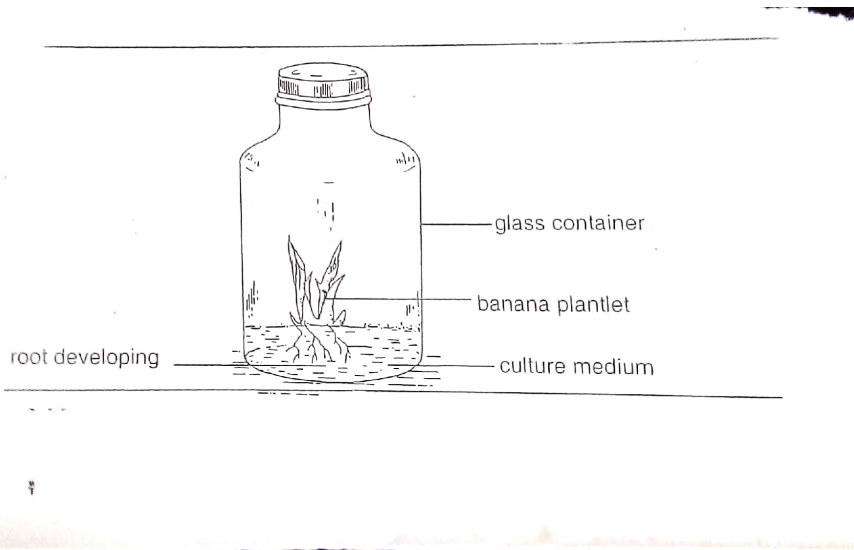
(a) Name the type of irrigation shown above.
(1mk)

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(b) Give three disadvantages of the method named in (a) above.
(3mks)

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21. The diagram shown below is a banana tissue culture



(a) What is tissue culture?

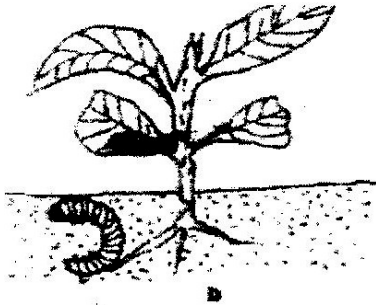
(1mk)

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(b) State the sequence of three stages of tissue culture.
(3mks)

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22. The diagram labeled D below shows a Kale crop invested by a pest



i) Identify the pest.

(1mk)

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ii) What damage does the pest cause the crop?

(1mk)

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iii) State two methods of controlling the pest.
(2mks)

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23. The diagram below shows a weed



a) Identify the weed
(1mk)

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b) State two reasons for controlling the weed
(2mks)

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c) Name two herbicides that can be used to control the weed in a field of maize
(1mk)

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SECTION C (40MKS)

24.(a) Explain four factors influencing Crop rotation.

(8mks)

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(b) Explain five ways on how soil loses its fertility.

(10mks)

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(c) Outline two reasons for carrying out rolling in crop production.

(2mks)

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25.(a) What is water conservation?

(2mks)

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(b) Explain Eight cultural methods of soil and water conservation measures.

(8mks)

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(c) Outline Ten harmful effects of crop pests in crop production.

(10mks)

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26.(a)Describe five methods a farmer can use to get rid of water from a swampy farm.
(10mks)

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(b)Describe the production of Tomatoes under the following sub-headings.
(10mks)

(i) Land preparation.
(4mks)

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(ii) Nursery management practices

(3mks)

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(iii) Transplanting

(3mks)

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