

Name : Index No :

School:..... Candidate's Name :

Date:

443/1

AGRICULTURE

Paper 1

July/August 2014

Time: 2 Hours

TRANS-MARA WEST DISTRICT ASSESSMENT TEST

Kenya Certificate of Secondary Education

AGRICULTURE

Paper 1

July/August 2014

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three section **A, B** and **C**
- Answer **all** the questions in section **A** and **B** any **two** questions from section **C**.
- Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

Instructions to candidates

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-18	30	
B	19 - 23	20	
C		20	
		20	
TOTAL SCORE		90	

This paper consists of 10 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30MARKS)

1. State **four** factors that determine the choice of water pipes used in the farm. (2mks)

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2. (a) State **three** causes of blossom end- rot diseases in tomatoes. (1 ½mks)

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(b) Give **two** factors that induce forking in carrots. (1mk)

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3. Give **three** effects of diseases on crop production. (1 ½ mks)

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4. Name **four** classes of pesticides according to the mode of action. (2mks)

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5. State **two** factors that determining the quality of compost manure. (1mk)

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6. Give **two** properties of the soil that are influenced by the soil texture. (1mk)

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7. State **four** ways of improving farm labour productivity. (2mks)

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8. Name **four** types of financial books. (2mks)

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9. Distinguish between over sowing and under sowing as used in pasture establishment. (1mk)

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10. (a) State **two** disadvantages of shifting cultivation. (1mk)

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(b) List **three** activities carried out in secondary cultivation. (1mk)

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11. Name **four** methods of treating the seeds before planting. (2mks)

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12. State **four** roles of trees in soil and water conservation. (2mks)

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13. Give **four** government policies that influence agricultural production in Kenya. (2mks)

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14. State **two** advantages of tenancy system in farming. (1mk)

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15. List **four** sites for agro forestry trees and shrubs in the farm. (2mks)

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16. Give **three** factors that determine the competitive ability of weeds. (1 ½ mks)

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17. State **two** field practices that could be carried out to maximize the use of nitrogenous fertilizer in maize field. (1 mk)

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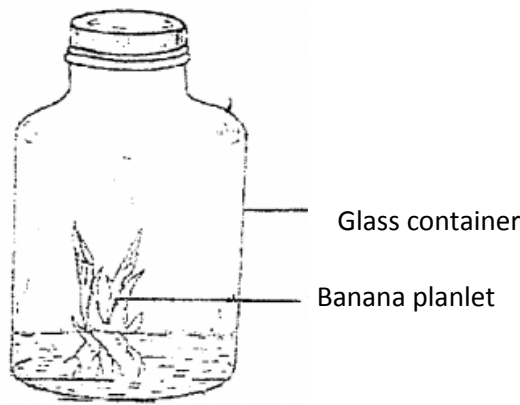
18. State **two** cultural measures of controlling maize streak diseases. (1mk)

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SECTION B (20MARKS)

• *Answer all the questions on this section in the spaces provided.*

19. The diagram below shows a banana tissue culture. Study it and answer the questions that follow.



(a) Name **two** ways of inducing the rooting of plantlets. (1mk)

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(b) Outline **three** steps followed in the development of tissue culture. (3mks)

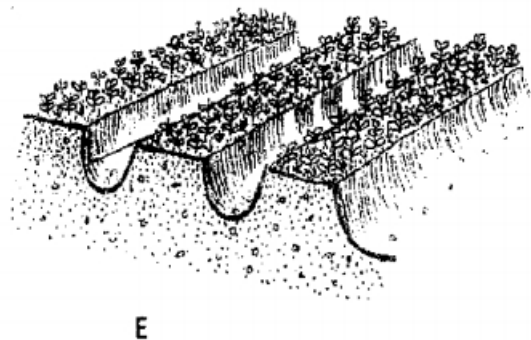
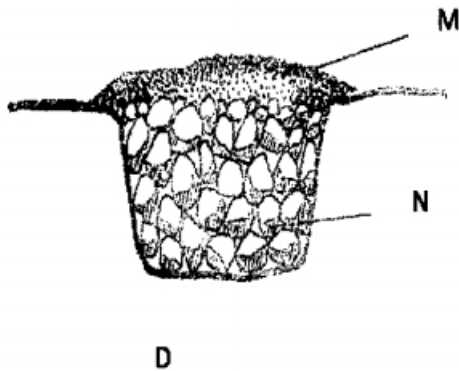
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(c) State **two** advantages of propagating crops by tissue culture technique. (1mk)

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20. A farmer has 16 hectares of land .6 ha under permanent pasture. He plans to grow 6 hectares of beans . In the previous seasons, the hired casual workers at the rate of 80 man days per hectares. The cost was kshs. 30 per man – day. This seasons he intends to hire a tractor to open the land at a cost of ksh.600 per hectares . He thinks that using a tractor will increase bean production from 800 to 1200kg/ha . Harvesting will cost kshs. 6 per kg of beans seeds and the price of beans will be kshs. 60/kg. Draw up a partial budget to show whether the change would be worthwhile. (5mks)

21. The diagram **D** and **E** below illustrate some methods of draining waterlogged soils . Study them and answer the questions that follow.



(a) Identify the methods illustrated. (1mk)

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(b) Name the material used in **D** labeled **M** and **N**. (2mks)

M

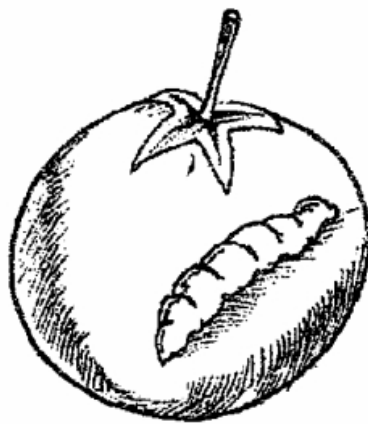
N

(c) A part from the methods illustrated above, name any other **two** ways of draining a waterlogged soil. (1mk)

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22. The diagram below shows a pest and the damaged crop. Study it and answer the questions that follow.



(a) Identify the crop pest illustrated above. (½ mk)

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(b) What damage does the pest cause to the crop. (½ mk)

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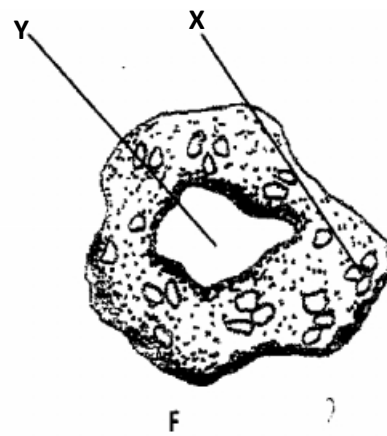
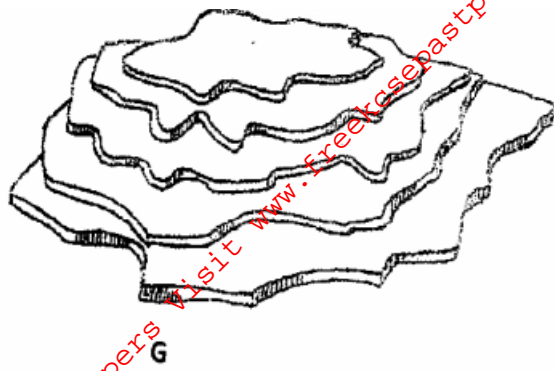
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(c) State **two** ways of controlling the pest. (1mk)

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23. The diagram below illustrate some soil structures. Study them and answer the questions that follow.



(a) Identify the soil structures **F** and **G**.

(1mk)

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(b) Name the part labelled **X** and **Y** in diagram **F**.

(1mk)

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(c) State **two** ways through which structure **G** influence crop production.

(2mks)

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SECTION C (40MARKS)

• Answer any two questions from this section in the spaces provided after question 26.

24. (a) Outline **five** activities that may be undertaken in minimum tillage. (5mks)
 (b) State the qualities of a good farmer manager. (5mks)
 (c) Explain **five** ways in which farmers may overcome risks and uncertainties in a farming business. (10mks)
25. (a) Describe **five** functions of agricultural marketing. (10mks)
 (b) Explain the **four** types of water erosion. (4mks)
 (c) Describe the nursery preparation and establishment in rice production. (6mks)
26. (a) Describe **five** factors that influence the demand of agricultural products. (10mks)
 (b) Outline the different methods of pasture conservation and utilization. (5mks)
 (c) Give reasons for raising vegetable seedlings through a nursery. (5mks)

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