

Name

Index No...../.....

School.....

Candidate's sign.....

Date.....

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2010
2 Hours

LAIKIPIA DISTRICT JOINT EVALUATION TEST - 2010

Kenya Certificate of Secondary Education (K.C.S.E)

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2010
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INSTRUCTIONS TO CANDIDATES

1. This paper consists of three sections: A, B and C
2. Answer ALL questions in section A and B in the spaces provided.
3. Answer ANY TWO questions in section C in the spaces provided.

FOR EXAMINER'S USE ONLY.

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A		30	
B		20	
C		20	
		20	
		TOTAL	

This paper consists of 12 printed pages. Candidates should check the questions to ensure that all pages are printed as indicated and no question(s) are missing

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. What is topping in pasture management? (1mk)
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.....
2. State **three** problems caused by a hard pan which develop in the sub-soil region within a soil profile. (1 ½ mks)
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3. Give **four** factors that determine the spacing of maize in the field. (2mks)
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4. State **three** disadvantages of communal land ownership. (1 ½ mks)
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5. Name any **two** types of terraces. (1mk)
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6. State **two** physical methods of weed control in the farm. (1mk)
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7. Give **one** reason for carrying out the following operations
(a) Rolling the seedbed. (1mk)
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(b) Leveling the seedbed (1mk)
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8. Distinguish between undersowing and oversowing as used in pasture production (2mks)

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9. State **two** characteristics of a good root stock for grafting (2mks)

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10. (a) Give **three** parameters of National Economic development (3mks)

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(b) List **four** labour constraints as a factor of production (2mks)

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11. State **three** qualities of crops used in the preparation of green manure (3mks)

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12. Give **three** symptoms of sulphur deficiency in crops. (3mks)

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13. Calculate the number of tea plants in three hectares (3ha) given that spacing is 150cm x 75cm and one seedling is planted in each hole. (3mks)

14. List **four** post-harvest practices carried out on cereal crops (2mks)

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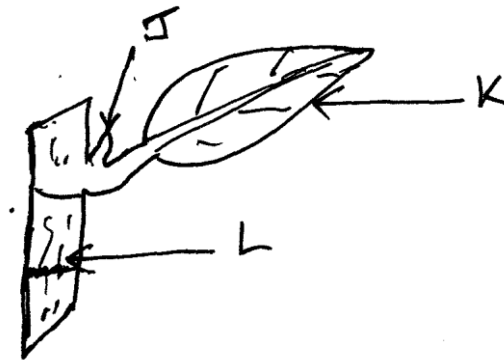
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SECTION B (20 MARKS)

Answer ALL questions in the spaces provided.

15. Study the illustration below.



(a) Name the parts labelled

J..... (½ mk)

K..... (½ mk)

L..... (½ mk)

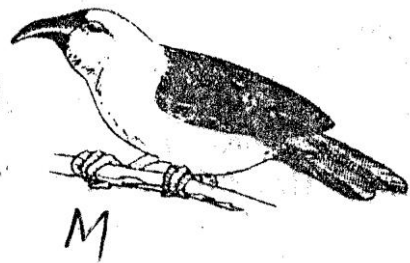
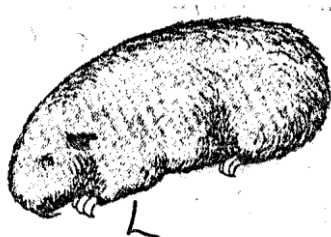
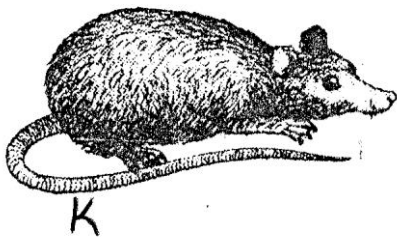
(b) What is the function of the part labeled k. (1mk)

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(c) State **five** factors which affect the rooting of cuttings. (2 ½ mks)

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16. Study the diagram below and answer questions that follow:



(i) Identify the pests

K..... (½ mk)

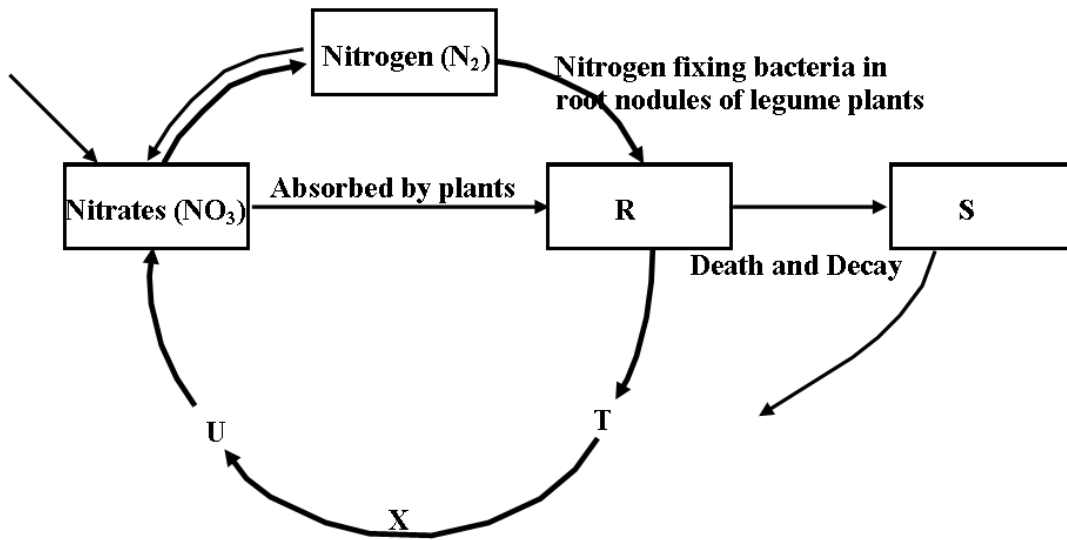
L..... (½ mk)

M..... (½ mk)

(ii) Give **one** common method of controlling pests K and L. (½ mk)

.....

17. Study the diagram of the Nitrogen cycle below



(a) Name the parts labelled

- R..... (½ mk)
- S..... (½ mk)
- T..... (½ mk)
- U..... (½ mk)

(b) Give the name of the bacteria x which operate between T and U. (1 mk)

.....

18. (a) Differentiate between solifluction and landslide. (2mks)

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(b) Name **four** types of landslides (2mks)

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19. State **four** advantages of crop rotation (2mks)

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20. Give **four** reasons for staking tomatoes

(4mks)

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SECTION C (40 MARKS)

Answer any two questions in this section.

21. Describe the harvesting process of the following crops.
- (a) Coffee (6mks)
 - (b) Pyrethrum (7mks)
 - (c) Sugar cane (7mks)
22. (a) Differentiate between risks and uncertainties (2mks)
- (b) List **six** common risks and uncertainties in most farms (6mks)
- (c) Explain the various ways of adjusting to risks and uncertainties (12mks)
23. (a) Describe the establishment and management of pure stand pasture up to the point of grazing. (14mks)
- (b) State the advantages of Rotational grazing (6mks)

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