

NAME: ..... INDEX NO: .....

SCHOOL:.....

Candidates signature: .....

Date: .....

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

**KAKAMEGA NORTH DISTRICT JOINT EVALUATION TESTS**  
**Kenya Certificate of Secondary Education (K.C.S.E) 2010**

443 / 1  
AGRICULTURE  
PAPER 1

**INSTRUCTIONS TO CANDIDATES**

- ❖ Write your name and index number in the spaces provided.
- ❖ Sign and write the date of examination in the spaces provided above
- ❖ This paper consists of three sections A, B and C.
- ❖ Answer ALL the questions in sections A and B and any two questions in section C
- ❖ Answer ALL questions in this paper in the spaces provided.

**For Official Use Only**

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-22	20	
C		20	
		20	
Total Score		90	

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

**SECTION A (30 marks)**

**Answer ALL the questions in this section in the spaces provided.**

1. Give **four** advantages of plantation farming. 2mks

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2. State **two** effects of pests on crop production. 1mk

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3. Give **four** conditions of the land which may make it necessary to carry out reclamation practices. 2mks

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4. Give **four** physical weathering agents in the soil formation process. 2mks

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5. State **two** mechanical methods of separating soil particles according to size during soil analysis. 1mk

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6. State **four** factors that should be considered when classifying crop pests. 2mks

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7. Give **four** functions of boron in crop development. 2mks

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8. Mention **four** observable indicators of economic development of a nation. 2mks

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9. List **four** characteristics of a crop grown for green manure. 2mks

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10. Give **four** pieces of information contained in a land title deed. 2mks

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11. State **two** ways in which the level of education affect agriculture. 1mk

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12. Give **four** benefits of rotational grazing.

2mks

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13. State **six** demerits of weeds in crop production.

2mks

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14. State **four** disadvantages of communal land tenure system.

2mks

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15. List **four** types of financial books a farmer should keep. 2mks

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16. **Define** the term utility of a commodity as used in agricultural economics. 1mk

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17. State **two** uses of a balance sheet in a farm business. 1mk

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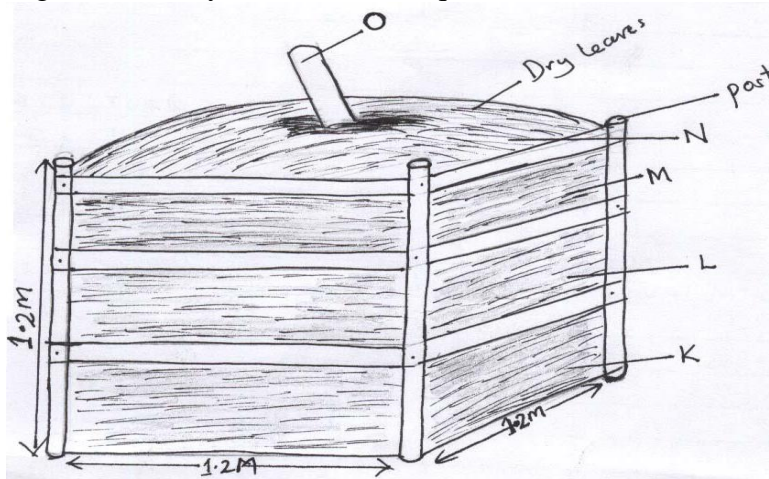
18. Give **four** advantages of drip irrigation 2mks

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**SECTION B. (20 marks)**

**Answer ALL the questions in this section in the spaces provided.**

19. The diagram below illustrates a compost heap prepared by a farmer to avail compost manure for use. Study the diagram carefully and answer the questions that follow.



a) Name the parts labeled K-N 2mks

- K: .....
- L: .....
- M: .....
- N: .....

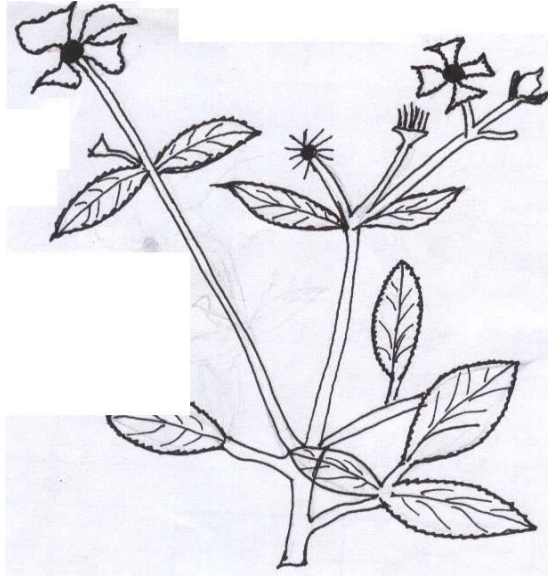
b) **State** one use of each of the parts labeled K, M, N, and O 2mks

- K: .....
- M: .....
- N: .....
- O: .....

c) List **four** reasons why compost manure K is not popularly used in farm. 2mks

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20. a) The diagram below shows a weed. Study it carefully and the questions which follow.



(i) Identify the weed.

½ mk

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(ii) Give **four** reasons for controlling the weed.

2mks

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

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- (iv) At what stage of growth of maize should the weed be controlled using post-emergence herbicide. ½ mk
- .....
- .....

- b) Mr. Munjaku from Lutonyi village in Kimilili prepared to top dress his 10 hectares of Boma Rhodes using Sulphate of ammonia ( 21% Nitrogen ). Sulphate of Ammonia fertilizer is applied at the rate of 120kg per hectare.

**Calculate;**

- (i) The quantity of Sulphate of Ammonia fertilizer the farmer will need for the 10 hectares ½ mk
- (ii) The number of 50kg bags of fertilizer he will purchase. ½ mk
- (iii) The cost of fertilizer if 1 bag of Sulphate of Ammonia costs kshs 1800/= 1mk

21. The table below shows the demand and supply of potatoes at Webuye Market.

Price (KSHS)	Quantity demand (in bags)	Quantity supplied (in bags)
1200	50	250
1000	90	200
800	150	150
600	225	70
400	335	0

- a) Using suitable scales, draw and label a graph showing the relationship between the demand and supply of the potatoes at Webuye Market. 5mks

## GRAPH PAPER

b) What is equilibrium price of the potatoes? 1mk

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c) From the graph, **determine**;

(i) The number of bags of potatoes that would be bought if the price per bag is Kshs

900/=

1mk

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(ii) The price of a bag of potatoes if 180 bags are supplied

1mk

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### SECTION C (40 marks)

**Answer any two questions in this section in the spaces provided in this booklet.**

22. **Describe** the establishment of kales under the following sub-headings:

- |  |      |
|--|------|
| a) Nursery preparation                     | 4mks |
| b) Establishments in the nursery           | 3mks |
| c) Managements of seedlings in the nursery | 5mks |
| d) Transplanting of seedlings              | 8mks |















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