

NAME INDEX NUMBER

SCHOOL SIGNATURE

DATE

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST 2015
TIME: 2 HRS

KISII CENTRAL JOINT EVALUATION

KENYA CERTIFICATE OF SECONDARY EDUCATION (K.C.S.E)

AGRICULTURE

Paper 1
July/ August 2015
Time: 2 hours

INSTRUCTIONS TO CANDIDATES

- Write your name, school, index number and signature in the spaces provided above.
- This paper consists of **three** sections: A, B and C.
- Answer **all** the questions in Section A and B and any **two** questions from Section C.
- Answer **all** questions must be written in spaces provided in this question paper.
- Answer questions in English.

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidates Score
A	1 - 19	30	
B	20-22	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. Give **four** examples of land reforms that have taken place in Kenya. (2 marks)

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2. Give **two** ways in which a farmer can reduce losses in stored grains. (1 mark)

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3. Give **four** factors that determine the number of times secondary cultivation is done. (2 marks)

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4. State **four** ways of improving farm labour productivity. (2 marks)

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5. Give **four** advantages of minimum tillage. (2 marks)

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6. State **four** effects of weeds in a pasture crop. (2 marks)

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7. Give **four** physical weathering agents in the soil formation process. (2 marks)

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8. List six factors considered when classifying crop pests.

(3 marks)

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9. Give four characteristics of crop grown for green manure.

(2 marks)

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10. List four types of financial books.

(2 marks)

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11. A farmer was asked to apply fertilizer as follows after soil testing:

50kg/ha Nitrogen as top dressing

60kg/ha P_2O_5 at planting

60kg/ha K_2O for top dressing

a) Calculate how much calcium ammonium nitrate 20%N would be required per hectare? (2 marks)

b) Calculate how much double super sulphate 40% P_2O_5 would be required per hectare. (2 marks)

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13. Give six advantages of farm planning. (3 marks)

(3 marks)

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14. Identify any two methods of increasing light intensity in crop production. (1 mark)

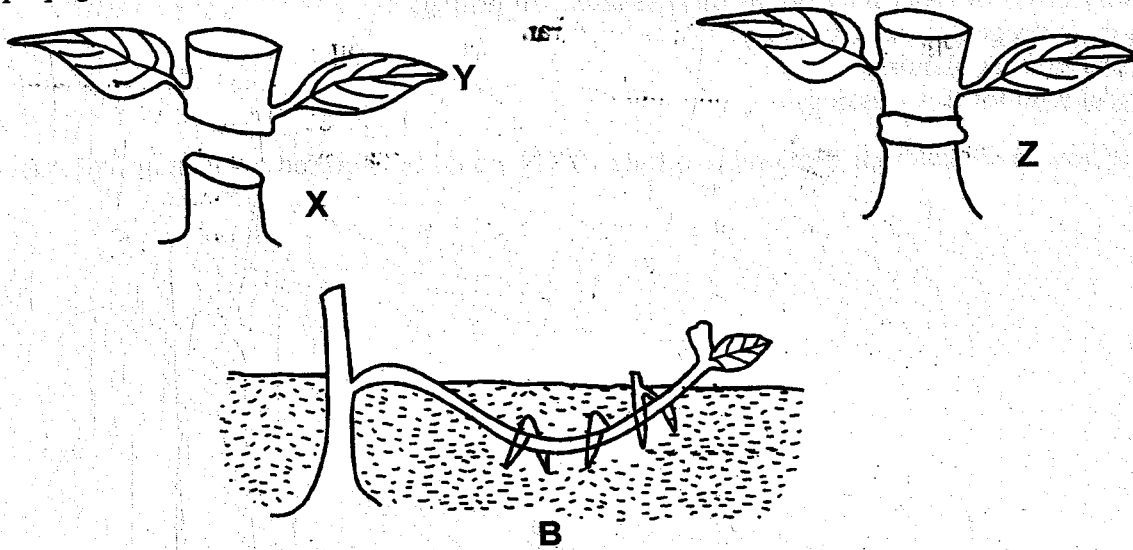
(1 mark)

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SECTION B (20 MARKS)

Answer ALL questions in this section in the spaces provided.

15. The diagrams labelled X, Y, Z and B below illustrate materials and methods of vegetative propagation. Study them and answer the questions which follow;



a) Name the parts labelled X and Y. (2 marks)

(2 marks)

X

Y

b) Name the methods of propagation illustrated in diagrams Z and B. (2 marks)

(2 marks)

Z

B

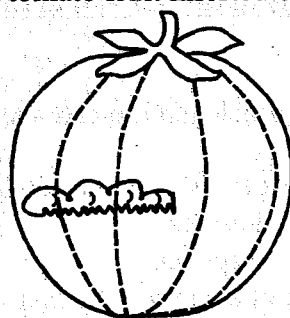
16. Use the information on the table below to answer the questions that follow:

Fertilizer inputs (units)	Maize yield (bags)	Marginal product (bags)	Average products
0	50		
1	62		
2	66		
3	68		
4	69		
5	69		

a) Fill in the marginal product and average product column.

(5 marks)

17. The diagram below illustrates a tomato fruit infested by a certain pest.



i) Identify the pest.

(1 mark)

ii) State the damage caused by the pest on the fruit.

(1 mark)

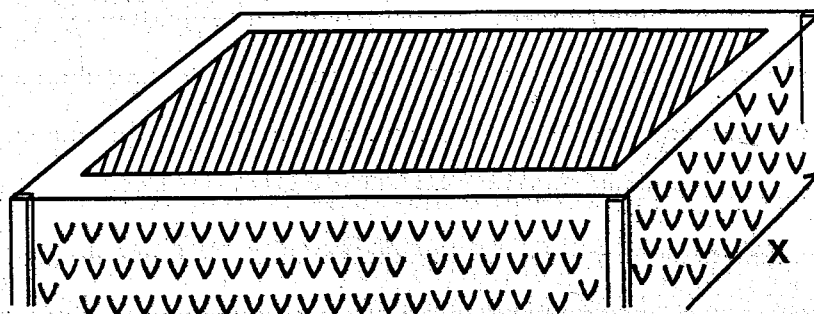
iii) Name one alternate host of the pest in the diagram.

(1 mark)

iv) State two methods of controlling the pest.

(2 marks)

18. The figure below represents a farm structure.



a) i) Identify the farm structure.....

(1 mark)

ii) What is the dimension of the part labelled X.

(1 mark)

iii) Give a reason for your answer in (ii) above.

(1 mark)

Lined writing area with horizontal dotted lines.