

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

DATE.....

443/1

AGRICULTURE PAPER ONE - 2016

TIME: 2HOURS

**TOP NOTCH EXAM MERIT TWO (PRE-MOCK) 2016
KENYA CERTIFICATE OF SECONDARY EDUCATION.**

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- The paper consists of three sections A, B and C.
- Answer all questions in section A and B in the spaces provided
- Answer two questions from section C on the foolscaps provided

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Section	Questions	Maximum Score	Candidate's Score
A	1 - 17	30	
B	18 - 19	20	
C		20	
Total Score		90	

SECTION A (30MARKS)

1. State three reasons why Agriculture is said to be an art. (1 ½ marks)

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2.State four factors that influence the quality of farm yard manure. (2marks)

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3.State four reasons for practicing crop rotation. (2marks)

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4.Give three different types of soil water (1 ½ marks)

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5. List four examples of maize diseases. (2marks)

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6. State three symptoms of potassium deficiency in crops (1 ½ marks)

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7. Name two liming elements in crop production. (1½marks)

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8. List three methods of drainage used in Kenya. (1½ marks)

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9. State four management practices carried out to maintain pasture productivity. (1½ marks)

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10. Outline three characteristics of a good rootstock. (1½ marks)

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11. List three ways in which crop pests are classified. (2marks)

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12. State four factors that may determine the number of cultivation when preparing a seed bed. (2marks)

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Agn' P.

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13. Outline three advantages of using certified seeds in crop production. (1 ½ marks)

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14. Outline three reasons for root pruning in Agroforestry seedlings. (1 ½ marks)

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15. State four activities that are involved during organic farming. (2mark)

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16. Give four measures a farmer may employ in order to adjust to uncertainty. (2marks)

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17. State two factors that determine the scale of agricultural production. (1mark)

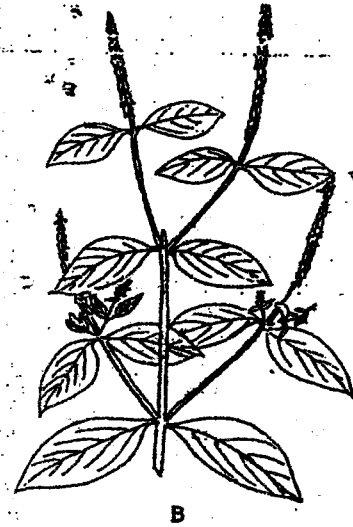
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Agri P.

SECTION B (20marks)

Answer all the questions from this section on the provided space

18. The diagrams below represent two weeds.



a) Identify the weeds marked A and B in the diagrams above. (2 marks)

A.....

B.....

b) State one harmful effects of each of the weed marked A and B in livestock production (2 marks)

(2 marks)

A.....

B.....

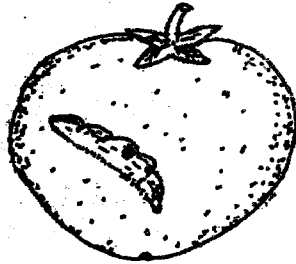
c) State one observable common feature in weed A. (1 mark)

(1 mark)

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Aghi P.

19. The diagram below shows a tomato fruit attacked by a certain pest.



(a) Identify the pest.

(1 mark)

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b) State two methods of controlling the pest.

(2 marks)

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(c) Name two diseases that affect the crop in the field.

(2 marks)

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(d) Name three field practices that are carried out on the crop other than pest control.

(3 marks)

Agri P₁

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20. Below is a diagram of a bird labelled A, which is a crop pest.



A

a) Identify the bird (½mark)

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b) State two ways by which the bird causes loss in crops.

(1marks).....

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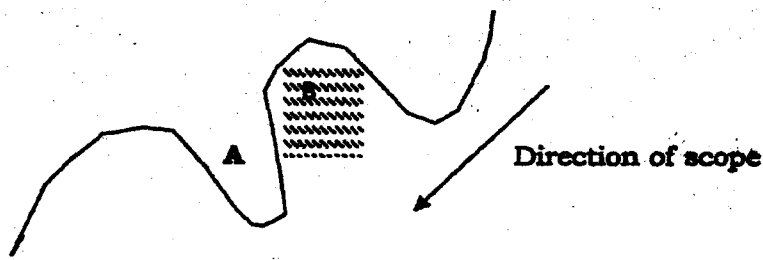
c) State four methods which are used to control the pest.

(2marks).....

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21. Below is a diagram of a narrow based terrace .Study it carefully and answer the questions that follow.

Acni P.



(i) Label part A and B (1mark)

A:

B:

(i) Name the practice carried to B immediately the terrace is constructed. (½ mark)

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(ii) State the maintenance practices carried to part A. (1mark)

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(iv) State two ways terraces conserve soil and water. (1mark)

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SECTION C (40MARKS)

Answer only two questions from this section on foolscaps provided.

22. a) Describe six functions of sulphur in crops. (6marks)

b) Explain six advantages of pruning coffee plants. (6marks)

c) Describe eight principles that govern the operations of agricultural co-operatives. (8marks)

23. (a) Describe effects of land fragmentation and subdivision. (6 marks)

Agri P.

(b) What advantages does a farmer holding a title deed have over one who does not have?

(4 marks)

(c) Describe the cultural methods a farmer would employ to control crop diseases.

(10 marks)

24. (a) Explain how farmers overcome risks and uncertainties in a farming business.

(6marks)

(b) What is the importance of budgeting on a farm.

(5marks)

(c) The following is a supply and demand schedule of eggs by teachers in a school.

Price per 30 egg tray kshs.	Demand per day (No of trays)	Supply per day (No of trays)
180	0.50	4.70
175	1.10	4.60
170	1.60	4.45
165	2.00	4.20
160	2.40	3.95
155	2.90	3.65
150	3.30	3.30
145	3.70	2.90
140	4.20	2.50
135	4.80	2.00

I Using the same axis draw graphs to indicate the relationship between price, demand and supply

(4marks)

II What is the equilibrium price?

(2marks)

III Describe the factors that may lead to an increase in demand of eggs at a given price.

(3marks)