

Name.....

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

School.....

Date

Candidate's Signature.....

443/1
AGRICULTURE
PAPER 1
JULY/AUGUST - 2012
Time: 2 Hours

LOITOKITOK DISTRICT JOINT EVALUATION TEST - 2012
Kenya Certificate of Secondary Education (K.C.S.E)

443/1
AGRICULTURE
Paper 1
JULY/AUGUST - 2012
Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- This paper consists of three sections A, B and C
- Answer ALL the questions in section A and B in the spaces provided
- In section C you are given three questions. Answer ANY two in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM MARKS	CANDIDATES SCORE
A	1 – 15	30	
B	16 – 21	20	
C	22	20	
	23	20	
	24		
TOTAL SCORE		90	

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

SECTION A (30 MARKS)

Answer all the questions in the spaces provided.

1. State **four** factors considered when identifying a farming system in an area. (2mks)

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2. State **four** roles played by living organisms in the process of soil formation. (2mks)

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3. Name any **two** types of micro-catchments used in the soil conservation. (1mk)

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4. Give **four** advantages of overhead irrigation in crop production. (2mks)

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5. List **four** benefits of draining a water-logged land. (2mks)

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6. Outline **three** factors considered when selecting materials for planting (1 ½ mk)

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7. A farmer wants to plant cabbages on his 2ha piece of land. Calculate the plant Population per hectare if he used a spacing of 60cm by 60cm. (2mks)

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8. Give **four** reasons for proper crop storage. (2mks)

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9. (a) State **four** symptoms of viral disease attack in crops. (2mks)

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(b) Outline **four** cultural practices of disease control in crop production. (2mks)

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10. State **three** practices of agroforestry. (1 ½ mks)

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11. (a) Name **two** pests that attack sorghum. (1mk)

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(b) Give **one** advantage of planting goose-necked variety of sorghum. (1mk)

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(c) Outline **four** effects of early defoliation of forage (2mks)

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12. Give **two** instances when opportunity cost is zero. (1mk)

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13. Name **two** books of accounts used in book-keeping. (1mk)

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14. Outline **four** functions of agricultural co-operative societies. (2mks)

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15. Give **two** roles of household- firm relationship in the country is economic growth. (2mks)

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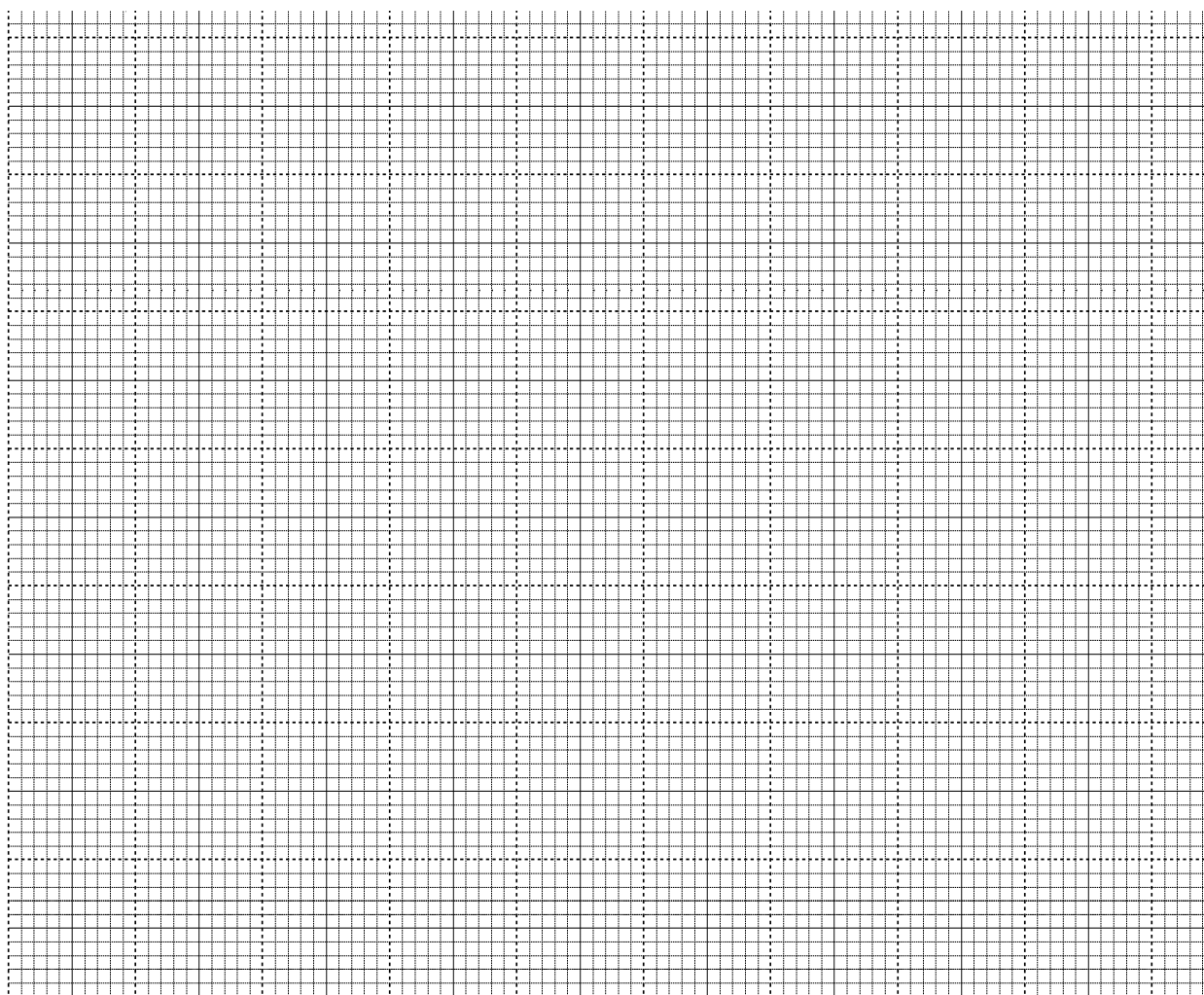
SECTION B (20 MARKS)

Answer all questions in the spaces provided.

16. The table below gives information on the supply and demand of potatoes in a local market.

Price in bag in sh.1000	Quantity demanded (bags)	Quantity supplied (bags)
1	20	2
2	15	8
3	12	12
4	10	16
5	9	19

(i) Using suitable scales and on the same axes draw and label supply and demand curves using the data given in the table above. (3mks)



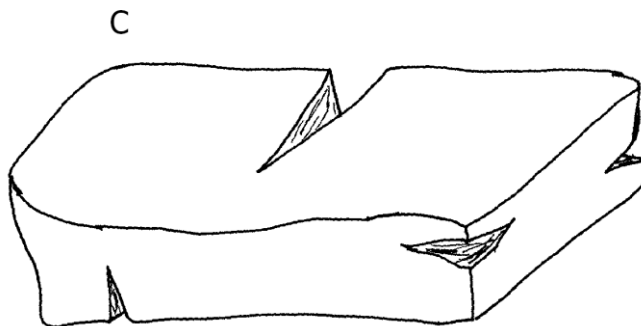
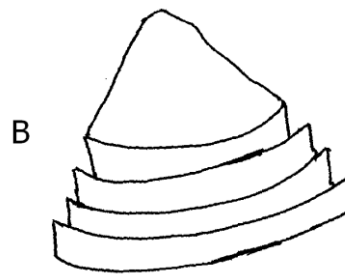
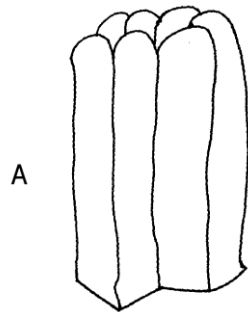
(ii) From the curves drawn what is the price per bag when 10 bags of potatoes were supplied. (1mk)

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(iii) How many bags of potatoes were supplied at equilibrium price. (1mk)

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17. Study the following diagrams of soil structures carefully and answer the questions that follow.



(a) Identify the soil structure above

A.....

B.....

C.....

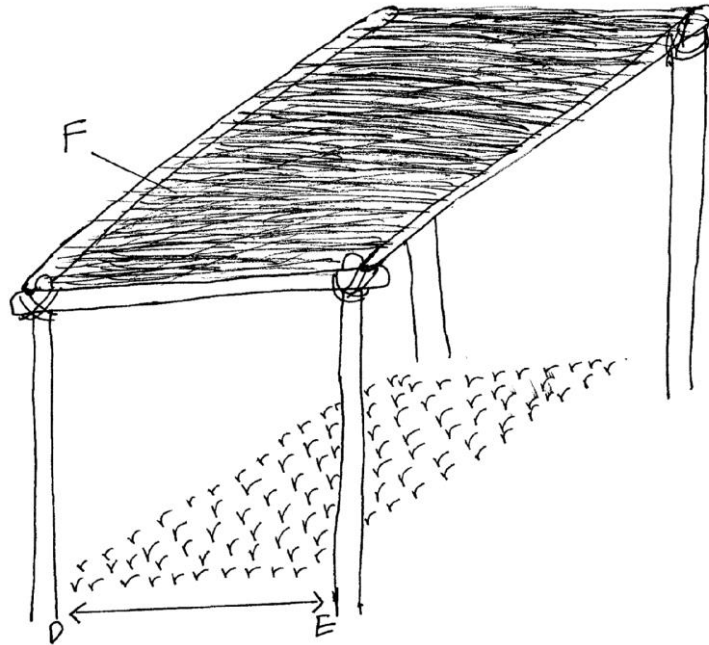
(b) State **two** disadvantages of structure B in crop production. (2mks)

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(c) State **two** ways in which soil structure influences crop production. (2mks)

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18. Study the diagram below and answer questions that follow.



(i) What is the recommended distance between D and E. (1mk)

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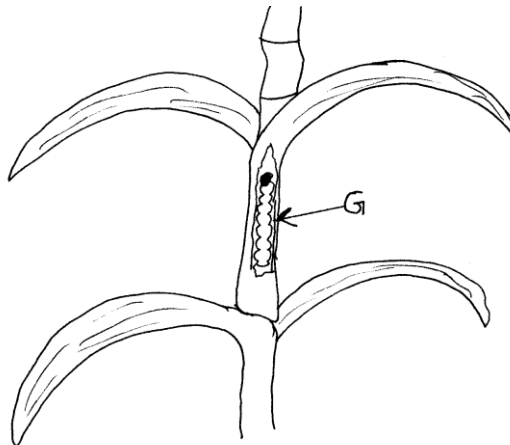
(ii) Give **two** examples of materials that can be used for part F. (1mk)

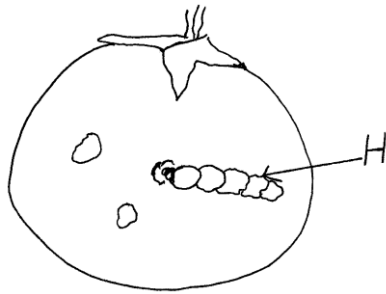
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(iii) Give **one** condition under which sunken nursery beds are recommended. (1mk)

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20. The diagram below illustrates some common pests in the farm.





(a) Identify the pests G and H above. (2mks)

G.....

H.....

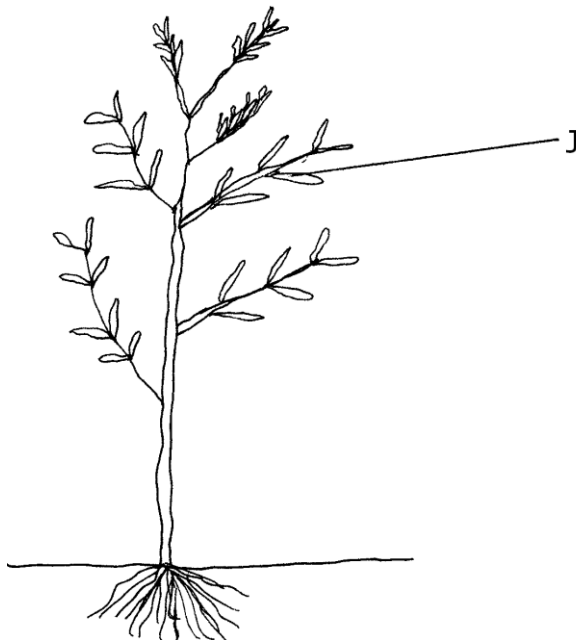
(b) Outline **two** control measures of pest H above. (2mks)

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(c) Name **one** disease of maize that can be transmitted by pest G above (½ mk)

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21.



Give **two** environmental adaptations of the weed labeled J above. (2mks)

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SECTION C (40 MARKS)

Answer any Two questions from this section.

22. A farmer in Kombo division wishes to change from arable farming to dairy goat production. In arable farming he has been spending shs.400 on weeding maize and ksh.200 on weeding cabbages. He spends ksh.500 and ksh.300 on harvesting maize and cabbages respectively. He buys the following inputs; DAP fertilizer at Ksh.1000, cabbage seeds for ksh.400, maize seeds For ksh.600. Pesticides cost ksh.800. He also spends ksh.300 on shelling of maize.

The change in enterprise will have the following implications; He will buy 5 dairy goats at ksh.2000 each; pay milkman shs.3000; control diseases at a cost of ksh.1500. Fencing of the farm will be done at a cost of ksh.1500

The revenue he gets when growing maize is ksh10,000 and cabbages is ksh.4,000. In dairy goat production, he will get Ksh20,000 from the sale of milk and ksh.1000 from sale of manure.

- (a) Prepare a partial budget and advise the farmer whether the change is worthwhile or not. (12mks)
- (b) Describe **eight** activities involved in the marketing process. (8mks)
- 23. (a) Explain **five** factors considered in designing a crop rotational programme. (5mks)
- (b) Outline **seven** advantages of land consolidation in land tenure reforms. (7mks)
- (c) Describe the practices that a farmer should carry out to ensure uniform germination of seeds. (4mks)
- (d) Give **four** reasons why burning is not recommended as a method of land cleaning (4mks)
- 24. (a) Describe maize production under the following sub-headings.
 - (i) Ecological Requirements (3mks)
 - (ii) Planting. (4mks)
 - (iii) Harvesting. (3mks)
- (b) Give **five** reasons why organic matter is important in the soil. (5mks)
- (c) Give **five** aspects that should be observed when pruning tea. (5mks)

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