

Name..... Index No.....
 School..... Candidate's sign.....
 Date.....

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

BUTERE DISTRICT JOINT EVALUATION TEST – 2010
Kenya Certificate of Secondary Education (K.C.S.E)

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- This paper has **THREE** sections A, B, and C.
- Answer **ALL** questions in section A and B and **TWO** questions from section C.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 17	30	
B	18 – 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 pages are printed as indicated
 and no questions are missing*

SECTION A (30 MARKS)

Answer all questions in this section.

1. State four factors to consider when identifying a farming system. (2mks)
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2. Give reasons for practicing minimum tillage in land preparation. (2mks)
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3. State four practices done to maintain soil fertility. (2mks)
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4. What is the meaning of the term olericulture as used in crop farming? (1mk)
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5. Give the factors that determine the depth of ploughing. (1mk)
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6. Give the reasons for keeping health records on the farm. (2mks)
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7. Name the two types of labour records kept on the farm. (1mk)
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8. List four methods of fertilizer application. (2mks)
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9. Why is it necessary to inoculate legume seeds before planting? (1mk)
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10. State four factors to be considered in siting a nursery bed. (2mks)
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11. State the symptoms of potassium deficiency in crops. (2mks)
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12. Differentiate between a nursery bed and a seedling bed in crop production. (1mk)
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13. State 4 advantages of landlordism and tenancy. (2mks)
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14. State the factors that influence solifluction. (2mks)
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15. Name insect pests with biting and chewing mouth parts. (2mks)

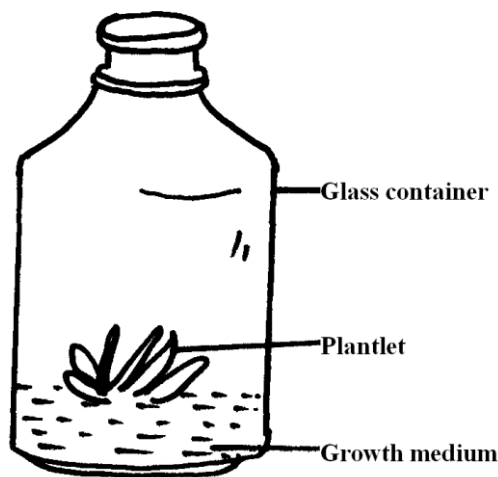
16. State four methods used in water harvesting. (2mks)

17. Give six advantages of rotational grazing. (3mks)

SECTION B (20 MARKS)

Answer all questions in this section in spaces provided.

18. The diagram below illustrates materials and a method of vegetative propagation. Study it and answer the questions that follow.



a) Identify the method of propagation illustrated above. (1mk)

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b) Give one advantage associated with the method. (1mk)

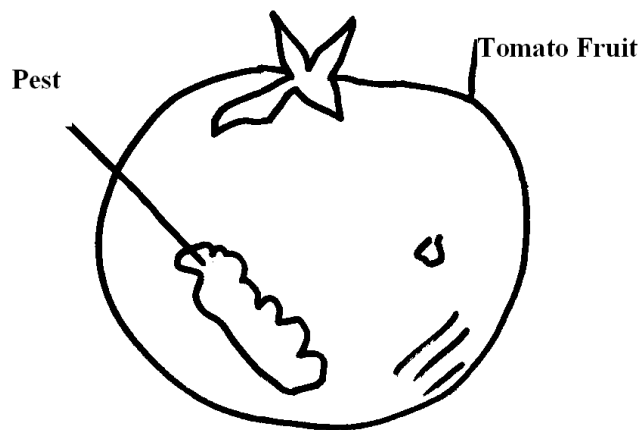
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c) State two reasons why the method in a, above is rarely practiced by farmers. (2mks)

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The diagram below represents a tomato crop which is attacked by a pest. Study it carefully and answer the questions that follow.

19.



a) Identify the pest (1mk)

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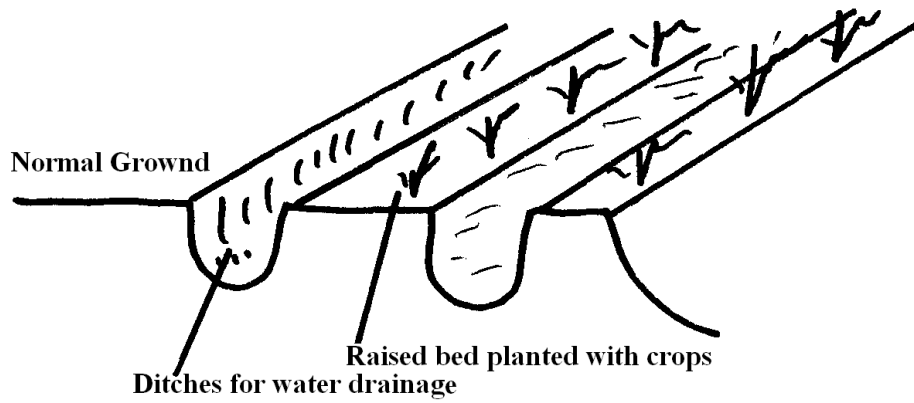
b) State any damage caused by the above pest. (1mk)

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c) State two control measures for the pest in a, above. (2mks)

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20. Below is an illustration of a drainage method. Study it and answer the questions that follow.



a) Name the method of drainage. (1mk)

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b) What land conditions require drainage as a reclamation method? (1mk)

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c) Give the importance of drainage as a land reclamation method. (2mks)

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21. Below is a diagram of a tree harvesting method.



a) Identify the tree harvesting method shown in the diagram above. (1mk)

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b) Name other tree harvesting methods apart from the one shown above. (2mks)

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c) Describe how the tree harvesting method above is carried out.

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22. The table below shows maize production in 90kg bags from varying amounts of NPK fertilizer on one hectare of land.

Year	NPK fertilizer in 30kg bags	Total maize production
1998	0	5
1999	30 kg	12
2000	60 kg	28
2001	90kg	47
2002	120kg	59
2003	150kg	65
2004	180kg	68
2005	210kg	70
2006	240kg	70
2007	270kg	68

a) Calculate the farmer's marginal product for the year 2001. (½ mk)

b) Calculate the average product for the year 2003.

c) Assume the average price of fertilizer over the years recorded was Kshs.1600 per 30kg bag and the price of maize Kshs.2000 per bag. Calculate the net revenue for the year 2006.

