

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

**443/1**  
**AGRICULTURE**  
**Paper 1**  
**July/August 2010**  
**2 Hours**

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

**443/1**  
**AGRICULTURE**  
**Paper 1**  
**July/August 2010**  
**2 Hours**

**Instructions to candidates.**

1. Write your name and index number in the spaces provided above
2. Sign and write the date of examination in the spaces provided above
3. This paper consists of three sections: A, B and C
4. Answer all the questions in section A and B in the spaces provided
5. Answer ANY TWO questions in section C in the spaces provided in this booklet

**FOR EXAMINER'S USE ONLY.**

SECTION		MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 20	30	
B	21 – 24	20	
C		20	
		20	
<b>TOTAL SCORE</b>		<b>80</b>	

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

**SECTION A (30MARKS)**

Answer all questions in this section in the spaces provided

1. How does foreign exchange earned from agriculture contribute to economic growth of Kenya (1mk)

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2. Give two reasons why seeds may fail to germinate after planting (1mk)

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3. Give two reasons why subsoiling should be carried out (1mk)

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4. Outline four steps followed during land adjudication (2mks)

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5. Give three reasons why farmers should establish seedlings first in nursery bed the cultivation of cabbages (1½mk)

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6. State three conditions that favour shifting cultivation (1½mk)

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7. Give two reasons why it is not recommended to weed beans on a wet weather (1mk)

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8. State four post harvest practices carried out on maize grains (2mks)

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9. Give two practices a farmer should carry out to ensure maximum use of nitrogenous fertilizers in a crop of maize. (2mks)

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10. Name four types of micro – catchments (2mks)

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11. Give four reasons why both the household and the firm are important in the economic development of a country (2mks)

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12. State any two responsibilities of the Kenya Meat Commission (KMC) as an agricultural parastatal body (2mks)

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13. Give three ways in which labour peak constraint can be overcome in the farm (1½mk)

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14. State the importance of air in the soil in relation to crop growth (1mk)

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15. Give three ways by which land as a factor of production could be made more productive (1½mk)

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16. State any four pieces of information that should be included in feeding records in poultry (2mks)

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17. State four factors which influence the quality of hay (2mks)

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18. State any three harmful effects of diseases to crops (1½mk)

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19. State two factors that determine the timing of harvesting crops (1mk)

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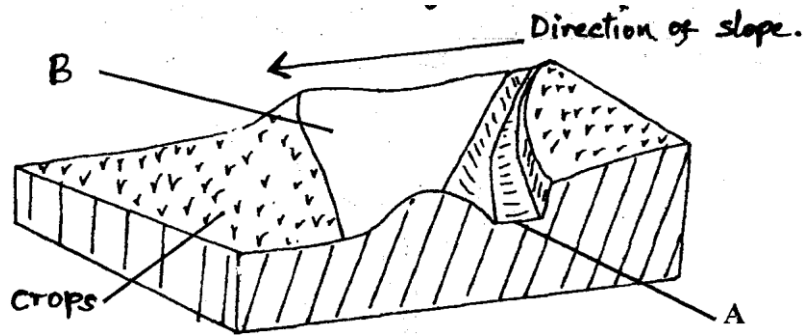
20. State three ways of overcoming the problem of water logging in crop production (1½mk)

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**SECTION B (20 MARKS)**

**Answer ALL questions in the spaces provided**

21. The diagram below shows a landscape structure. Study the diagram and answer the questions that follow.



(a) Identify the soil conservation measure above (1mk)

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(b) Name the parts labelled A and B (1mk)

A.....

B.....

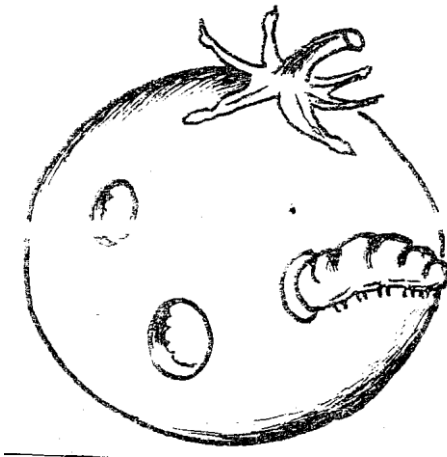
(c) State two factors that would determine the depth and width of part labelled A (2mks)

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(d) State two uses of the structure shown in the diagram (2mks)

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22. The diagram below shows a vegetable fruit which has been attacked by a certain pest



(a) What pest caused this damage (1mk)

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(b) Give one control measure for the pest named in (a) above (1mk)

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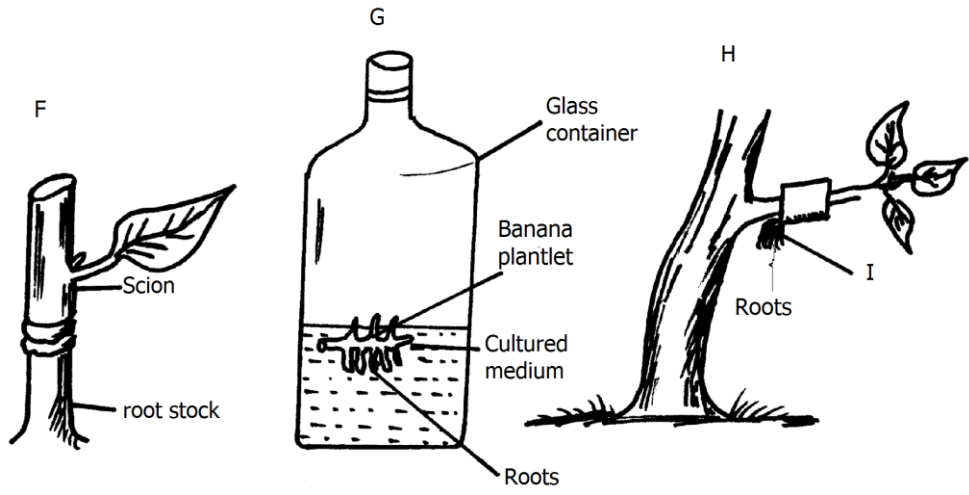
(c) Name two common diseases that may affect the vegetable fruit above (2mks)

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(d) Give two problems small scale farmers encounter in marketing of the vegetable fruit above (2mks)

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23. Study the methods of crops propagation F, G, and H illustrated below and answer the questions that follow:



(a) Identify the methods of crop propagation illustrated above (3mks)

F.....  
 G.....  
 H.....

(b) Give one condition under which H is carried out (1mk)

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(c) Give one importance of using the method of propagation illustrated in G above (1mk)

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24. (a) What is nitrogen fixation (1mk)

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(b) A farmer was advised to apply 150kg SA/Ha; while top dressing tomatoes. SA contains 21% nitrogen. Calculate the amount of nitrogen required for top dressing two hectares (Show your working) (3mks)



**SECTION C (40 MARKS)**

**Answer any two questions in the spaces provided**

25. Study the information below concerning the financial position of Mr. Joseph's farm for the year ending 31<sup>st</sup> December 2008

<b>Items</b>	<b>Cost / ksh</b>
Milk sales	8,000
Purchase of farm tools	1,000
Sale of goats	500
Construction of zero grazing unit	10,000
Closing valuation	16,000
Depreciation of machinery	800
Interest payable	750
Veterinary bills	400
Sale of cabbages	750
Wages	4,800
Sale of heifers	9,400
Opening valuation	12,000
Sale of tea	4,700
Purchase of pesticide	300

- (a) Prepare a profit and loss account for Mr. Joseph's farm for the year ending 31<sup>st</sup> December 2008 (11mks)
- (b) What was the percentage profit or loss made during the year (2mks)
- (c) How would you increase efficiency in a farming business (7mks)
26. Describe the field production of tomatoes under the following sub headings
- (a) Ecological requirements (4mks)
- (b) Seedbed preparation (4mks)
- (c) Transplanting (6mks)
- (d) Field operations (6mks)
27. (a) Describe the various methods of controlling crop diseases in the field (10mks)
- (b) Explain five methods through which extension services and information can reach farmers (10mks)

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