

AGRICULTURE
Paper 1
July/August 2014
Time: 2 Hours

Date

WESTLANDS FORM 4 JOINT EXAMINATION
Kenya Certificate of Secondary Education

AGRICULTURE
Paper 1
July/August 2014
Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- * Write your name and index number in the spaces provided above.
- * Sign and write the date of the examination 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 in section C.
- * All answers must be written in the spaces provided in this booklet

For Examiner's Use Only

Section	Questions	Maximum score	Candidate's score
A	1 - 22	30	
B	23 - 26	20	
C		20	
		20	
Total score		90	

8. State two qualities that should be considered when selecting seeds for planting. (1 mark)

9. State four post harvest practices carried out on maize grains. (2 mark)

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

11. Name four types of micro-catchments. (2 marks)

12. State the principle of equimarginal return. (1 mark)

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

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12. State the principle of equimarginal return. (1 mark)

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

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14. Give two ways in which pesticides kill pests. (1 mark)

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15. State three factors that determine the quality of hay. (1½ marks)

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16. List four environmental factors that affect crop distribution in Kenya. (2 marks)

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17. How are crop pests classified according to their mode of feeding? (1 mark)

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18. Give two ways by which overheating can be avoided in the process of making silage. (1 mark)

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19. Give three effects of overstocking in pasture management. (1½ marks)

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20. Give three reasons for staking tomatoes. (1½ marks)

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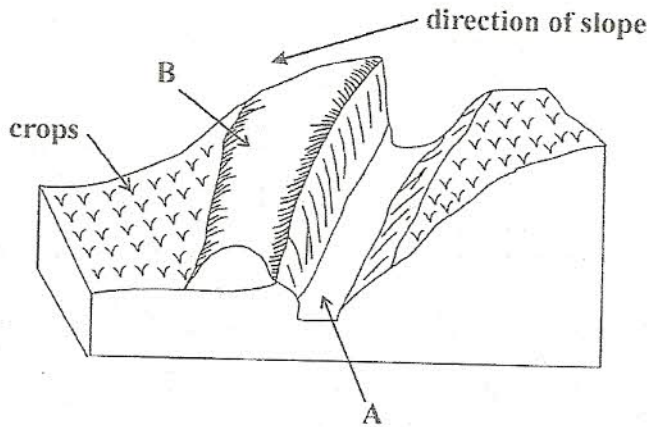
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22. State three ways of overcoming the problem of water logging in crop production. (1½ marks)

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SECTION B : (20 Marks)

Answer all questions in the spaces provided.

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



a) Identify soil conservation measure above. (1 mark)

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

A

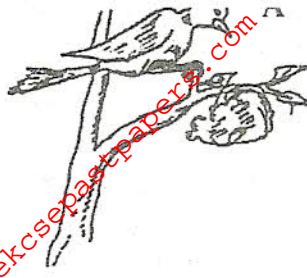
B

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

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

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i) Identify the crop pest.

(1 mark)

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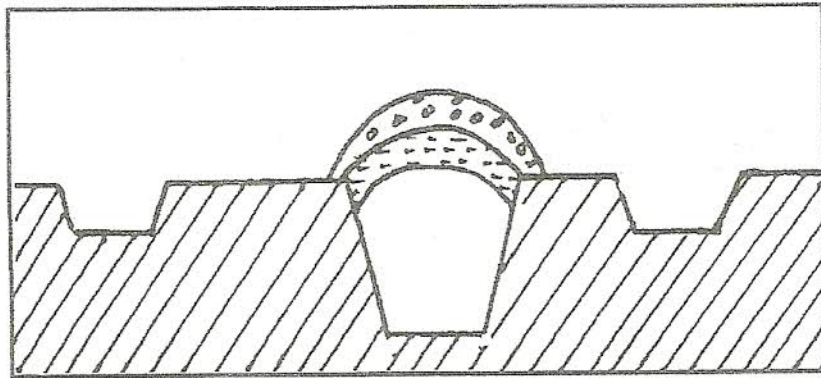
ii) State two ways which the bird causes losses in crops.

(2 marks)

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25. The diagram below shows a method of silage preparation. Use it to answer the questions that follow.



a) Identify the structure.

(1 mark)

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b) State one way of improving the palatability of silage.

(1 mark)

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c) What is the importance of chopping silage material before ensiling.

(1 mark)

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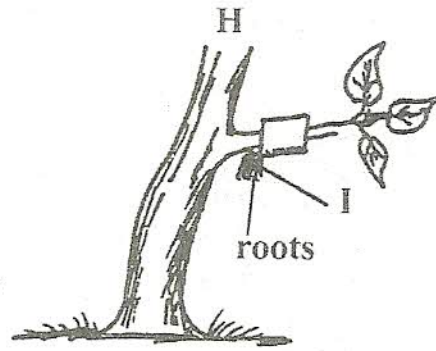
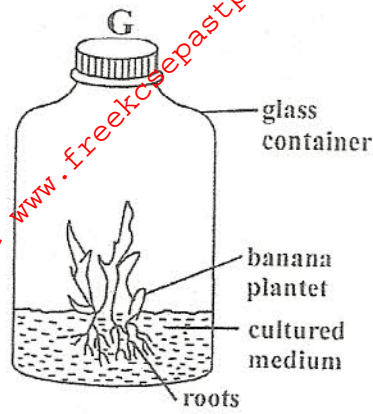
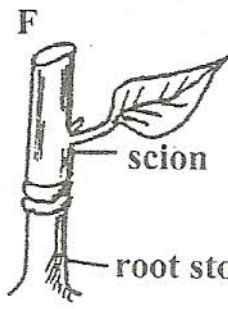
d) Give three ensiling losses in silage making.

(3 marks)

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a) Identify the methods of crop propagation illustrated below. (3 marks)

F

G

H

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

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c) Give two importance of using the method of propagation illustrated in G above. (1 mark)

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27. Study the information below concerning the financial position of Mr. Joseph's farm for the year ending 31st December 2008

Items	Cost / Ksh
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) i) Prepare a profit and loss account for Mr. Joseph's farm for the year ending 31st December. (6 marks)
- ii) State four questions that guide a planner when making a partial budget. (4 marks)
- b) Explain six problems that face co-operatives in Kenya. (6 marks)
- c) State four functions of Young Farmers Club in Kenya. (4 marks)
28. a) Describe the field production of tomatoes under the following sub-headings :
- i) Seedbed preparation (4 marks)
- ii) Transplanting (4 marks)
- b) Describe the various methods of controlling crop diseases in the field. (7 marks)
- c) Give five reasons for carrying out minimum tillage. (5 marks)
29. a) Explain five methods through which extension services and information can reach farmers. (6 marks)
- b) What are the advantages of a mixed grass legume pasture over a pure grass pasture? (8 marks)
- c) Explain the factors which contribute to the competition ability of weeds. (6 marks)

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