

Name _____ Index No. _____

Date _____

Candidate's signature _____

443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2014
TIME : 2 HOURS

KANGUNDO DISTRICT FORM IV MULTILATERAL EXAMINATION 2014
Kenya Certificate of Secondary Education
AGRICULTURE
Paper 1
2 hours

INSTRUCTIONS TO CANDIDATES

- (a) Write your name and index number in the spaces provided above.
- (b) This paper consists of three sections A, B and C.
- (c) Answer ALL the questions in section A and B and two questions in section C.
- (d) Candidates should answer the question in English.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
1	1 – 15	30	
B	16 – 19	20	
C	20 -22	40	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all the questions in the spaces provided.

1. Give four importance of horticultural crops in the economy of Kenya. (2 marks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
2. State four advantages of raising tomato seedlings in a nursery. (2 marks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
3. What four disadvantages are associated with burning of land in shifting cultivation? (2 marks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
4. Which three soil properties are influenced by soil texture. (3 marks)
(i) _____
(ii) _____
(iii) _____
5. Outline four characteristics researchers aim at developing in breeding of maize crop. (2 marks)
(i) _____
(ii) _____
(iii) _____
(iv) _____
6. Distinguish between grafting and layering as used in crop production. (1 mark)
(i) Grafting

(ii) Layering

7. List six ways by which a farmer can adjust to risks and uncertainties. (3 marks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____
 - (vi) _____
8. State four aims of land settlement programmes in Kenya. (2 marks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
9. State four biotic factors that have negative influence on crop production. (2 marks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
10. List two reasons which causes hard-pan in a crop field. (1 mark)
- (i) _____
 - (ii) _____
11. State six ways on how a farmer prevents loss of soil fertility. (3 marks)
- (i) _____
 - (ii) _____
 - (iii) _____
 - (iv) _____
 - (v) _____
 - (vi) _____
12. List four characteristics of plants suitable for green manure preparation. (2 marks)
- (i) _____
 - (ii) _____

(iii) _____

(iv) _____

13. State two precautions which are taken when harvesting cotton. (2 marks)

(i) _____

(ii) _____

14. State two characteristics of high altitude pastures. (1 mark)

(i) _____

(ii) _____

15. List two physical agents of weathering in the soil forming process. (2 marks)

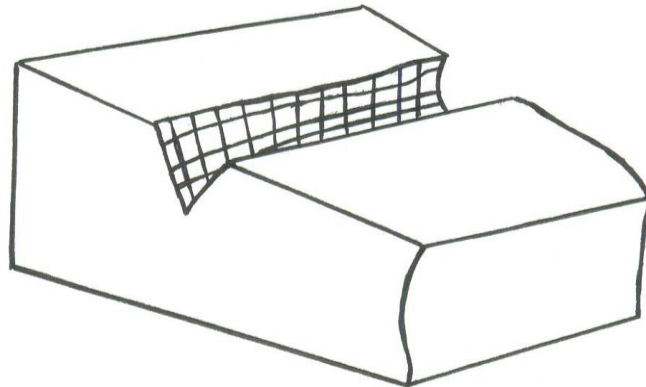
(i) _____

(ii) _____

SECTION B (20 MAKS)

Answer all the questions in the spaces provided

16. The diagram below represents a type of gulley erosion. Study it carefully and answer the questions below.

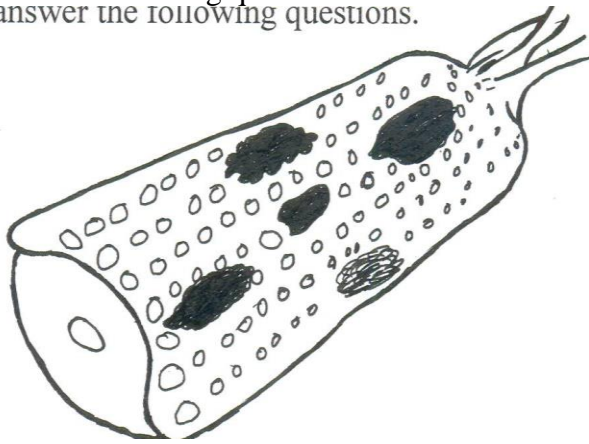


(a) Identify the type of gulley illustrated above. (1 mark)

(b) Briefly explain how the gulley is formed. (3 marks)

(c) Name one control measure that has been used over many years to control gulley erosion. (1 mark)

17. The diagram below shows a maize cob attacked by a certain disease. Study it and then answer the following questions.
answer the following questions.

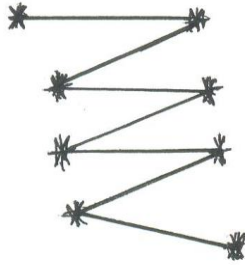


(a) Identify the disease. (1 mark)

(b) Name the causal organism of the disease. (1 mark)

(c) State three cultural methods of controlling the disease. (3 marks)

18. The diagram below is a soil sampling method.



(a) Identify the method of soil sampling. (1 mark)

(b) State four activities that are carried out during soil sampling in the field. (4 marks)

(c) Give three precautions taken when collecting a soil sample for soil testing. (3 marks)

19. Name two classes of weeds based on their morphology. (2 marks)

ANSWERS:

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