

AGRICULTURE PAPER 1

2012 QUESTIONS

SECTION A (30 marks)

Answer ALL the questions in this section in the spaces provided.

1 Name the part harvested for each of the following crops:

(a) onions (1/2 marks)

(b) carrots (1/2 marks)

(c) coffee (1/2 marks)

2. State **four** biotic factors that influence crop production. (2 marks)

3. Name **four** methods of controlling crop pests. (2 marks)

4. State **four** ways of harvesting water on the farm. (2 marks)

5. Name **four** farm records that should be kept by a poultry farmer. (2 marks)

6. State **four** disadvantages of using organic manure in crop production. (2 marks)

7. Give **two** ways in which pastures are classified. (1 mark)

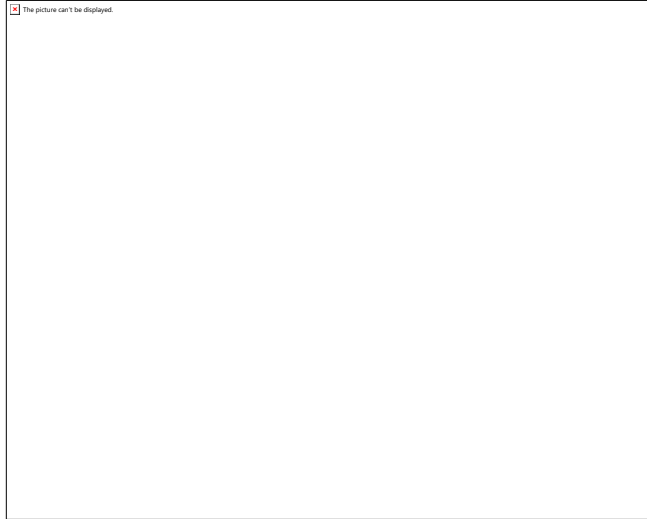
8. State **four** disadvantages of organic mulches. (2 marks)

9. Give **five** advantages of practicing crop rotation. (2 ¹/₂ marks)
10. State **two** advantages of earthing up in crop production. (1 mark)
11. Give **four** harmful effects of weeds on crop production. (2 marks)
12. State **three** advantages of shifting cultivation. (1 ¹/₂marks)
13. Give **five** advantages of zero grazing in dairy farming. (2¹/₂ marks)
14. State **four** factors that determine the stage at which a crop is harvested. (2marks)
15. State **four** ways in which land reform can be implemented in Kenya. (2marks)
16. Give **four** factors that influence the number of secondary cultivation in seedbed preparation. (2marks)

SECTION B

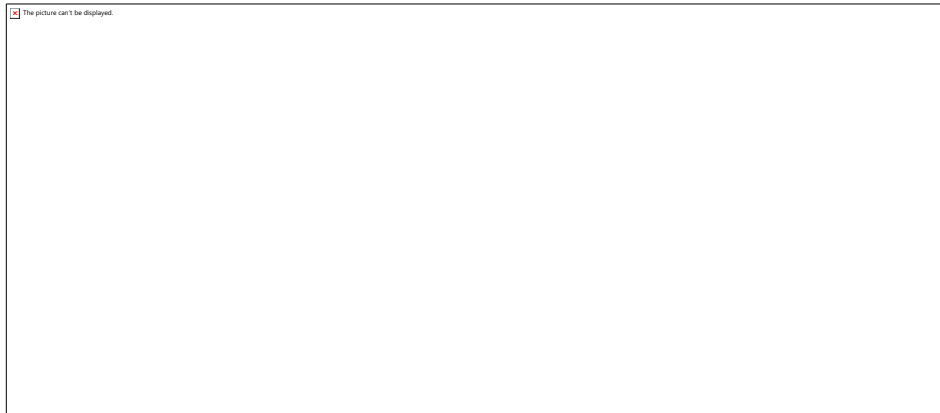
Answer all the questions in this section in the spaces provided.

17. The illustration below shows a structure used for controlling soil erosion. Study it carefully and answer the questions that follow;



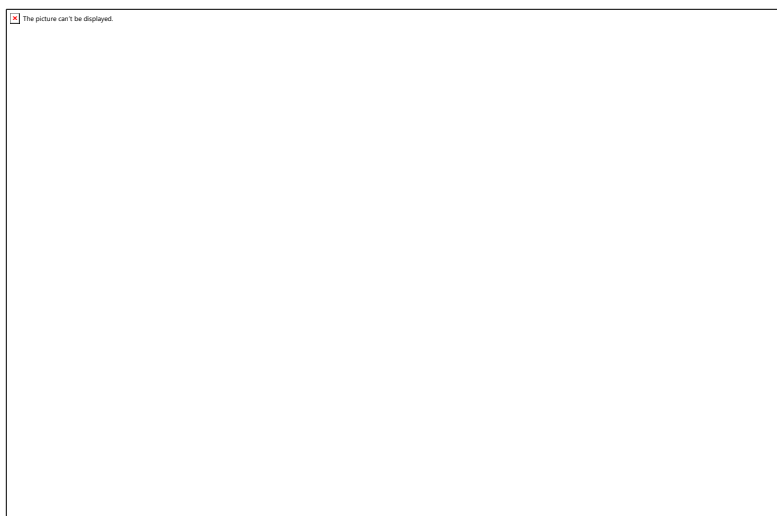
- a) Identify the structure (1mark)
- b) Explain two ways in which the structure helps to control soil erosion. (2marks)

18. The diagram below illustrates the law of demand in agricultural marketing. Study it and answer the questions that follow.



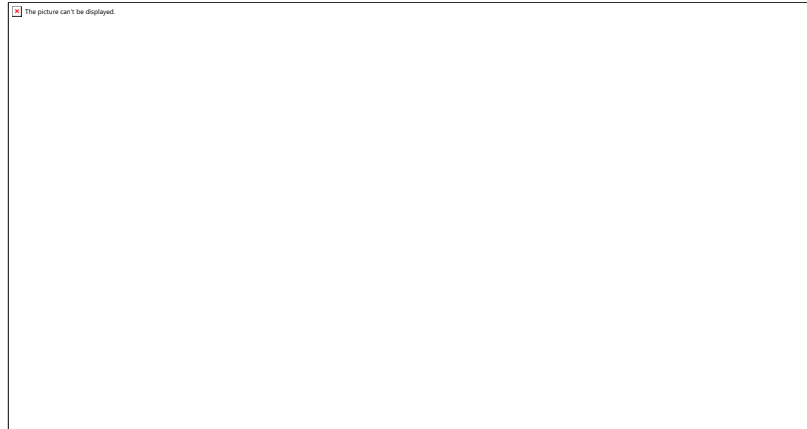
- a) Give a reason for the shape of the curve labelled A. (1mark)
- b) If the price of the commodity remains constant, explain three factors that can cause the curve to shift from A to B. (3marks)

19. The diagrams below illustrates common weeds in arable land. Study them carefully and answer the questions that follow.



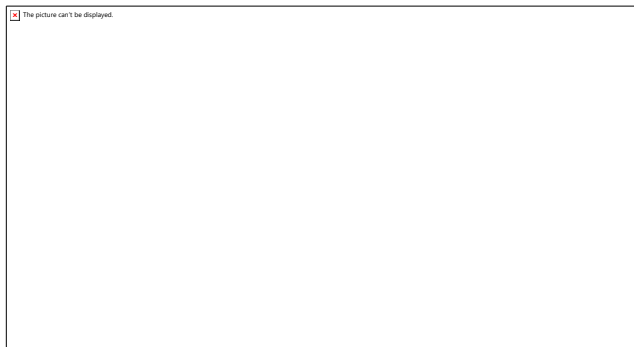
- a) Identify the weed labelled D. (1mark)
- b) Classify the weed labelled C according to plant morphology. (1mark)
- c) Give one reason why it is difficult to control the weed labelled D. (1mark)

20. The diagram below illustrates an agroforestry practice. Study it and answer the questions that follow.



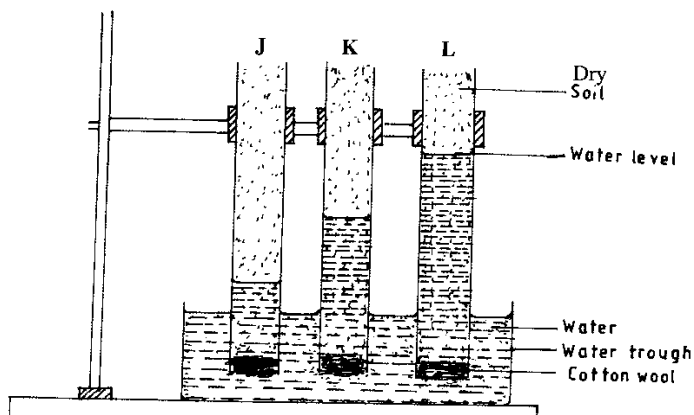
- a) Identify the agroforestry practice illustrated above. (1mark)
- b) Explain three benefits of the practice illustrated above. (3marks)

21. The diagram below shows a pest and the damaged crop. Study it and answer the questions that follow;



- a) Identify the crop pest illustrated above. (1mark)
- b) Explain two ways of controlling the pest (2marks)

22. The diagram below illustrates an investigation on a property of soil using soil samples labelled J,K and L.



- a) If the levels of water shown in the diagram were observed after three hours, name the property of soil being investigated. (1mark)
- b) What is the relationship between the soil property named in (a) above and the size of soil particles? (1mark)
- c) Which soil sample would be suitable for growing paddy rice? (1mark)

SECTION C (40 marks)

Answer any TWO questions from this section in the spaces provided after question 25.

- 23** (a) Explain **five** factors that should be considered in farm planning. (10 marks)
- (b) Describe the transplanting of tomato seedlings. (10 marks)
- 24** (a) Explain **five** factors that should be considered when siting a vegetable nursery. (5 marks)

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- (b) Explain six factors that should be considered when selecting seeds for planting. (6 marks)