AGRICULTURE PAPER 1

KCSE 2012

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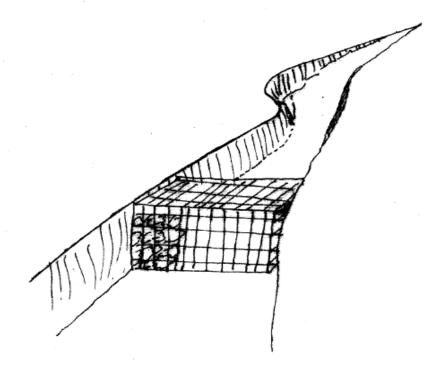
Agriculture Paper 1 (443/1)

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

1	Name the part harvested for each of the following crops:	:			
	(a) onions	(½ mark)			
	(b) carrots	(½ mark)			
	(c) coffee	(½ mark)			
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 practising crop rotation.	(2½ 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.	(1½ marks)			
13	Give five advantages of zero grazing in dairy farming.	(2½ marks)			
14	State four factors that determine the stage at which a crop is harvested.	(2 marks)			
15	State four ways in which land reform can be implemented in Kenya.	(2 marks)			
16	Give four factors that influence the number of secondary cultivations in seedbed preparation. (2 marks)				

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.



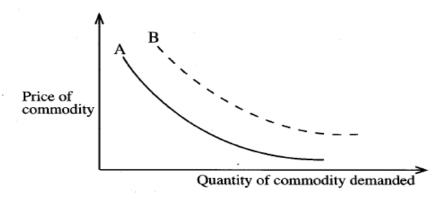
(a) Identify the structure.

(1 mark)

(b) Explain **two** ways in which the structure helps to control soil erosion.

(2 marks)

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



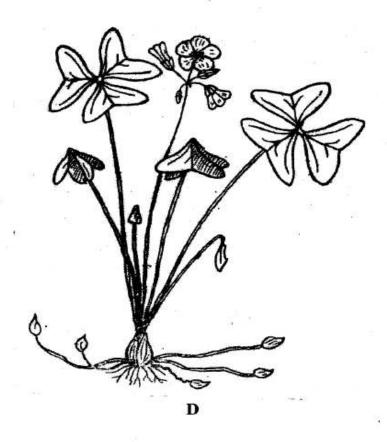
(a) Give a reason for the shape of the curve labelled A.

(1 mark)

(b) If the price of the commodity remains constant, explain **three** factors that can cause the curve to shift from **A** to **B**. (3 marks)

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





(a) Identify the weed labelled D.

(1 mark

(b) Classify the weed labelled C according to plant morphology.

- (1 mark
- (c) Give one reason why it is difficult to control the weed labelled D.
- (1 mark)

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



(a) Identify the agroforestry practice illustrated above.

(1 mark)

(b) Explain three benefits of the practice illustrated above.

(3 marks)

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



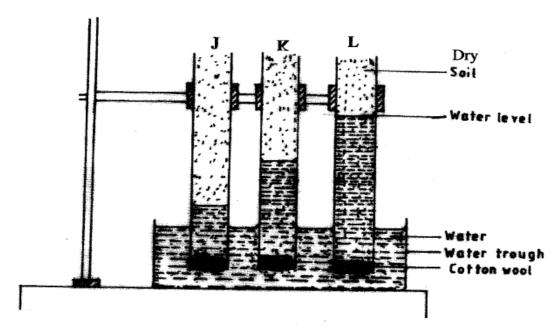
(a) Identify the crop pest illustrated above.

(1 mark)

(b) Explain two ways of controlling the pest.

(2 marks)

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. (1 mark)
- (b) What is the relationship between the soil property named in (a) above and the size of soil particles? (1 mark)
- (c) Which soil sample would be suitable for growing paddy rice?

(1 mark)

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 ne	ursery. (5 marks)			
	(b)	Explain six factors that should be considered when selecting seeds for p	lanting. (6 marks)			
	(c)	Explain the different ways in which each of the following environmental factors influence crop production:				
		(i) temperature;	(4 marks)			
		(ii) wind.	(5 marks)			
25	(a)	Outline the information contained in a Purchase Order.	(5 marks)			
	(b)	Describe the harvesting of tea.	(6 marks)			
	(c)	Explain the importance of irrigation in crop production. (5 mass)				
	(d)	Describe the role of magnesium in crop production.				