# **4.8 AGRICULTURE (443)**

## 4.8.1 Agriculture Paper 1 (443/1)

#### SECTION A (30 marks)

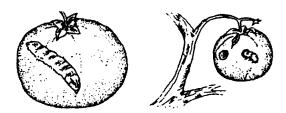
Answer all the questions in this section in the spaces provided.

1.	Name four aspects of rainfall that affect agriculture.	(2 marks)
2.	State four factors that determine the depth of cultivation.	(2 marks)
3.	State four factors that influence the quality of farmyard manure.	(2 marks)
4.	State two factors that determine national income.	(1 mark)
5.	State four causes of land fragmentation.	(2 marks)
6.	Name two types of labour records.	(1 mark)
7.	State four ways in which crop pests are classified.	(2 marks)
8.	What is the minimum number of people required to form a co-operative society	in Kenya? (½ mark)
9.	Give two examples of fixed costs in maize production.	(1 mark)
10.	What is meant by the term production function?	(1 mark)
11.	State three characteristics of good trees for agroforestry.	(1½ marks)
12.	Name two varieties of sorghum grown in Kenya.	(1 mark)
13.	State four reasons why agriculture is important to Kenya's economy.	(2 marks)
14.	Give two reasons why the use of fire is discouraged in land clearing.	(1 mark)
15.	State four ways in which mulching conserves water.	(2 marks)
16.	State four uses of farm records.	(2 marks)
17.	State four characteristics of shifting cultivation.	(2 marks)
18.	State the law of supply as used in agricultural marketing.	(1 mark)
19.	State four ways in which trees improve soil productivity.	(2 marks)
20.	What is meant by the term integrated pest management?	(1 mark)

### SECTION B (20 marks)

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

The diagram below illustrates a tomato fruit infested by a field pest. 21.



- (a) Identify the pest.
- (b) State two ways in which the pest is economically important.
- State two cultural ways of controlling the pest. (c)
- The diagram below shows a weed. 22.



- (a) Identify the weed.
- Using features on the diagram, give two reasons why it is difficult to eradicate the above (b) weed. (2 marks)
- State two ways in which the weed is economically important. (c)

(2 marks)

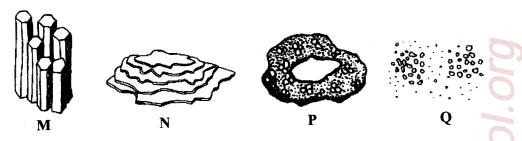
(1 mark)

(2 marks)

(2 marks)

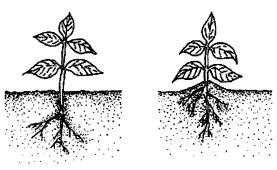
(1 mark)

23. The diagrams below illustrate soil structures.



(a)	Identi	fy the soil structure labelled M, N and P.	
	M		(1 mark)
			(1 mark)
	N		
	P		(1 mark)
(b)	Name	the type of soil where each of the structures labelled $N$ and $Q$ is found	
	N		(1 mark
	Q		(1 mark

24. The diagram below shows an illustration of a crop field practice.



Before practice After practice

- (a) Identify the field practice illustrated above.
- (b) Name two crops which require the practice illustrated.
- (c) Give **two** reasons for carrying out the practice on one of the crops you have named in (b) above. (2 marks)

(1 mark)

(2 marks)

# SECTION C (40 marks)

Answer any two questions from this section in the spaces provided after question 27.

25.	(a)	Explain seven factors that should be considered when selecting seeds for plant	
			(7 marks)
	(b)	State four benefits of adequate and reliable rainfall in vegetable crop production	
			(4 marks)
	(c)	State four pieces of information contained in an invoice.	(4 marks)
	(d)	State five roles of calcium in crop production.	(5 marks)
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26.	(a)	Describe how sugar cane is harvested.	(5 marks)
	(b)	Explain four factors that determine the nutrient content of hay.	(4 marks)
	(c)	State seven roles of a farm manager.	(7 marks)
	(d)	Describe <b>four</b> methods used to reclaim a swampy land for agricultural produc	tion
	(u)	Describe ious methods used to reclaim a swampy fand for agricultural produc	(4 marks)
27.	(a)	Describe the production of carrots under the following subheadings:	
		(i) land preparation	(3 marks)
		(ii) planting	(4 marks)
	41.		
	(b)	Describe six ways in which grass cover helps in soil and water conservation.	(6 marks)
	(c)	Explain seven nursery management practices.	(7 marks)