2011

THE KENYA NATIONAL EXAMINATIONS COUNCIL **Kenya Certificate of Secondary Education** AGRICULTURE Paper 1 2 hours

		SECTION A (30 mark	(s)		
		Answer all the questions in	n this section in the spaces provided.		
1 (a)	Nan	ne two field management practices population in a crop field.	s that are carried out to obtain optimum plant	(1 mark)	
	(b)	Explain how each of the practices population.	s named in (a) above achieves optimum plant	(1 mark)	
2.	Give two examples for each of the following types of costs incurred in broiler production.				
	(a)	variable costs;	(1 mark)		
	(b)	fixed costs.	(1 mark)		

	(b)	inventory;		$(^{1}/2)$	mark)	
	(c)	cash book.				(16 mark)
9	State fo	our functions of A	gricultural Society of Ko	enya (A.S.K.).		(2 marks)
10	How d	loes leaching lead (to loss of soil fertility?		(¹ /2 mark)	
11	Give t	two reasons for im	posing quarantine on im	ported planting m	aterials.	(1 mark)
12	State f	our ways of contro	olling bean anthracnose	disease.		
13	List fo	our post-harvest pr	actices that are carried o	ut in maize produc	ction.	(2 marks)

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19 Give three maintenance practices for trees in agroforestry. $(\frac{1}{2} \text{ marks})$

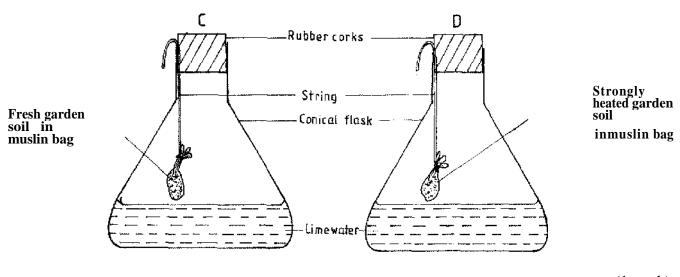
SECTION B (20 marks)

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

20. The diagram below illustrates a seed potato prepared for planting. Study it carefully and answer the questions that follow:



- (a) Name the practice used in preparing the seed potato above for planting. (1 mark)
- (b) Describe the procedure followed in preparing seed potatoes for planting. (3 marks)
- The diagrams below show a set up of an experiment to study an aspect of soil. The set up was left undisturbed for five hours. Study it and answer the questions that follow.



(1 mark)

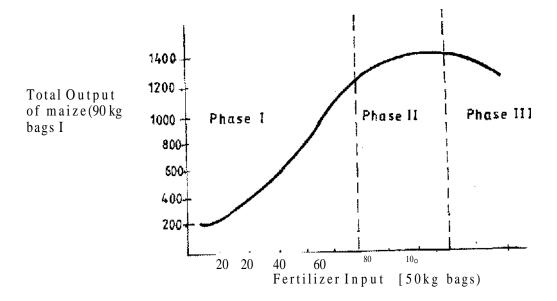
(a) What was the aim of the experiment?

(b) State one observation that was made in each of the flasks labelled C and D.

(c) Give a reason for each of your answers in (b) above.

D......(1mark)

Below is a graphical representation of a law in agricultural economics. Study the graph carefully and answer the questions that follow:



- (a) Identify the law illustrated by the graph.
- (b) Explain how each additional unit of fertilizer input relates to the total output of maize in phases II and III.

Phase II......(1 mark)

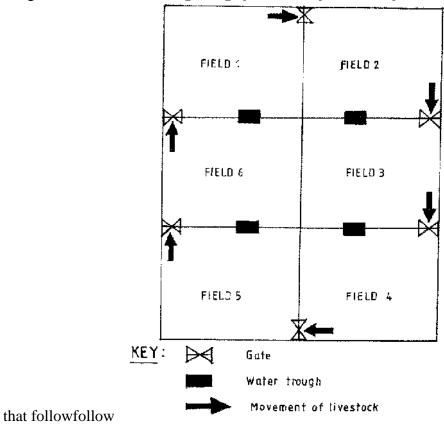
Phase III(1	mark)
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- (c) State the importance of the law identified in (i) above to the maize farmer. (1 mark)
- The following information was extracted from Makueni Farm Records for the financial year ending on 30th June 2009. Study it and prepare a profit and loss account for the farm.

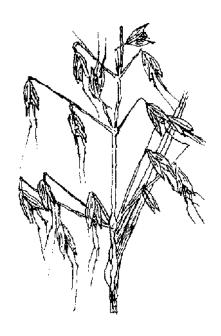
(3 marks)

Rent received	Sh. 10,000
• Egg sale	Sh. 60,000
Repair of tractor	Sh. 30,000
Opening valuation	Sh. 80,000
Interest on Bank loan	Sh. 20,000
• Tax paid	Sh. 40,000
Closing valuation	Sh. 90,000
• Purchase of farm inputs	Sh. 90,000
• Debts receivable from fanners co-op society	Sh. 100,000
Maize sales	Sh. 55,000

24 The diagram below illustrates a grazing system. Study it carefully and answer the questions



- (a) Identify the grazing system illustrated above. $(\frac{1}{2} \text{ marks})$
- (b) State five advantages of the grazing system illustrated above. (3 marks)
- 25 The diagram below is an illustration of a weed. Study it and answer the questions that follow.



(a) Identify the weed.

 $(^{1}/_{2} \text{ marks})$

(b) State two harmful effects of the weed illustrated above.

(2 marks)

SECTION C (40 marks)

Answer any two questions from this section in the spaces provided after question 28.

26 (a) Describe how water is treated to remove solid impurities.

5 marks)

(b) Give a reason for each of the farm records kept on a dairy farm.

(

(

5 marks)

(c) Describe the production of cabbages under the following sub-headings:

(i) seedbed preparation;
3 marks)

(7 marks)

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transplanting of seedlings.

(ii)

27	(a)	Describe the effects of pests on maize in the field.		
			(
6 marl	cs)			
	(b)	(i) Describe the procedure of harvesting pyrethrum.		
			(
	4 mai	·ks)		
	(i	i) Explain the precautions that should be observed during the harvesting of		
		pyrethrum. (3 marks)		
	(c)	Describe the cultural methods of controlling soil erosion.		
			(
	7 mai	·ks)		
28	(a)	Explain five ways in which biotic factors influence crop production in agriculture	•	
		(5 mark	(S	
	(b)	Describe how the stem cuttings for propagating tea are prepared.		
			(
	9 marks)			
	(c)	Describe the properties of nitrogenous fertilizers.		