AGRICULTURE PAPER 1

KCSE 2011

Coordinated by KENPRO, Macjo Arcade, 4th Floor, Suite 15E, Off Magadi Road, Ongata Rongai |Tel: +254202319748 | E-mail: infosnkenya@gmail.com | Website: <u>www.schoolsnetkenya.com/</u>

4.3.1 Agriculture Paper 1 (443/1)

SECTION A (30 marks)

Answer all the questions in this section in the spaces provided.					
(a)	Name two field management practices that are carried out to obtain optimum population in a crop field.	plant (1 mark)			
 (b)	Explain how each of the practices named in (a) above achieves optimum plant population.	t (1 mark)			
Gi	ve two examples for each of the following types of costs incurred in broiler produc	ction.			
(a)	variable costs;	(1 mark			
 (b) 	fixed costs.	(1 mark			
Sta	te four disadvantages of mono cropping in crop production.	(2 marks			
Gi	ve three reasons for early seedbed preparation.	1½ marks			
Sta	State two ways in which crop rotation controls weeds. (1				
	Dutline four qualities of a mother plant from which vegetative propagation materials should be obtained.				
	ve three factors that should be considered when choosing the type of labour to use m.	on the 1½ marks)			

S	State the use of each of the following in farm accounting:					
(a) balance sheet;	(½ mark)				
(b) inventory;	(½ mark)				
	c) cash book.	(½ mark)				
	State four functions of Agricultural Society of Kenya (A.S.K.).					
0 H	How does leaching lead to loss of soil fertility?					
 1 C	ive two reasons for imposing quarantine on imported planting materials.	(1 mark)				
	tate four ways of controlling bean anthracnose disease.	(2 marks)				
	List four post-harvest practices that are carried out in maize production. (2 marks) Name two types of non-competitive markets. (1 mark)					
	Name four settlement schemes that the Kenyan government started as a result of the success of the Million Acre Scheme. (2 marks)					
6 (Give a weed for each case, which has the following effect on cattle:					
(a) poisoning;	(½ mark)				
(b) tainting milk when eaten before milking.	(½ mark)				
	part from training and extension services, state four other agricultural suppor the Kenyan government provides to a maize farmer.					

19 Give three maintenance practices for trees in agroforestry.

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)
- 21 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.



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



23 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.

 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 farmers co-op society	Sh 100.000
• Maize sales	Sh. 55,000

(3 marks

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



(1/2 mark)

(a)

State five advantages of the grazing system illustrated above. (b) (2½ 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 mark)	
(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)	Desc	ribe 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)	Desc		
		(i)	seedbed preparation;	(3 marks)
		(ii)	transplanting of seedlings.	(7 marks)
27	(a)	Desc	ribe the effects of pests on maize in the field.	(6 marks)
	(b)	(i)	Describe the procedure of harvesting pyrethrum.	(4 marks)
		(ii)	Explain the precautions that should be observed during the harv	esting of
			pyrethrum.	(3 marks)
	(c)	Describe the cultural methods of controlling soil erosion.		(7 marks)
28	(a)	Explain five ways in which biotic factors influence crop production i		agriculture.
				(5 marks)
	(b)	Describe how the stem cuttings for propagating tea are prepared.		(9 marks)
	(c)	Desc	ribe the properties of nitrogenous fertilizers.	(6 marks)