ALLIANCE HIGH SCHOOL AGRICULTURE - FORM IV 2016 TERM ONE – END OF TERM TIME TWO HOURS

ALL the questions in this section in the spaces provided. Define organic farming	(1mark)
	٠
List THREE soil constituents	(1 ½ m
Give FOUR benefits of crop rotation	(1mark
	•
State TWO disadvantages of using hydram pumps in pumpin	
List FOUR benefits of land consolidation in farming	(1mark (2mark
	(1mark (2mark
List FOUR benefits of land consolidation in farming Name a crop weed that is:	(1mark
List FOUR benefits of land consolidation in farming	(1mark

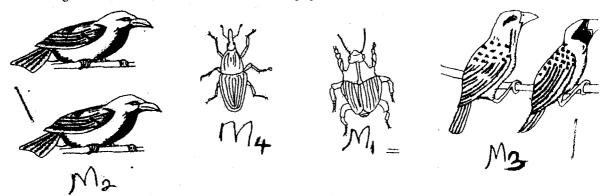
(iii)	Aquatic	$(^1/_2 \text{ mark})$
(iv)	Has medicinal value	(¹ / ₂ mark)
State	THREE ways in which nitrogen is lost from the soil	(1½ marks)
State	FOUR benefits of mulching in soil and water conservation	(2marks)
Give	FOUR disadvantages of using organic manures in crop production	
Give	FOUR disadvantages of using organic manures in crop production	
	FOUR disadvantages of using organic manures in crop production	(2marks)
(i)	FOUR disadvantages of using organic manures in crop production Define opportunity cost	(2marks)

(i)	Give TWO destructive effects of moles in crop production	(1mark)
(ii)	Apart from moles, name TWO other rodent pests	(1mark)
State	THREE examples of nitrogen fixing trees/shrubs.	(1½ mar
List F	OUR factors that determine the quality of hay	(2marks)
State 1	FOUR field pests that attach maize	. (2marks)
Differe	entiate between apiculture and aquaculture as used in Agriculture	(1mark)
	WO ways in which have	
State T	WO ways in which burning leads to loss of soil fertility	(1mark)

SECTION B (20 MARKS)

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

20. The diagrams below illustrate both field and storage pests.



M2:	
M3:	
was a series by which next labelled MO courses loss in careal crops	(m. 1
wo ways by which pest labelled W2 causes loss in cercal crops.	(2marks)
	1 17
hree methods which are used to control the pest labelled M2.	(2marks)
:	
- }	nree methods which are used to control the pest labelled M2.

21. Study the farm record below and use it to answer the questions that follow.

Date	Amount	Price per	Total	Where sold	Remarks
1	Sold	unit (Kshs.)	value		
			(Kshs)		
19/5/2015	120kg	30	3,600	Professional	Fair Price
				Agrovet	
20/5/2015	150kg	32	-	Nunguni Agrovet	To supply
					more

Name the type of farm record above	(1mark)
•	
On the record fill the missing values	(1mark)

Give a farm statement that heavily depends on information extracted from the farm record named above (1mark) 22. The diagram below illustrates a crop pest Identify the pest (1mark) Give TWO reasons why the above pest is difficult to control (2marks) Give a reason why indiscriminate use of pesticide on the farm may cause increased crop . damage by the above pest (1mark) 23. The diagram below shows a method of planting used to establish a certain variety of crop 30cm Planted crops 60cm Identify the method of planting used (1mark)

Give	the inte	erplant spacing followed above	(1mark)
			1
Give	THRE	E advantages of the above method of panting	(3marks)
			1
		•	
	. ———	<u>*</u>	
The s	macino	above was used to establish a crop on an area of land measuring 6m	ov 3m.
		e crop population. Show your working	(4marks)
SEC"	TION	C (40 MARKS)	
SEC	HON	C (40 MARKS)	
Ansu	ver AN	Y TWO questions from this section in the spaces provided.	
24.	(a)	Explain challenges faced by Kenyan vegetable farmers in the prod	
		crops	(10mks)
	(b)	Explain five qualities of a good silage.	(5mks)
	(c)		(5mks)
25.	(a)	Outline various ways in which land fragmentation increases the co	st of food
		production in Kenya	(5mks)
	·(b)	Describe the importances of top dressing in pasture establishment	(5mks)
	(c)	Explain FIVE factors that influence soil erosion	(10mks)
26.	(a) I	Describe the production of beans under the following sub-topics:	
	(i)	Planting	(2marks)
	(ii)	Field Management Practices.	(4marks)
•	(iii)	Harvesting.	(2marks)
	(b) C	outline the safety measures in the use of chemicals to minimize environme	
			(8marks)
	(c) E	Explain <u>four</u> qualities of a good silage.	(4marks)