NAME	.INDEX NO
SCHOOL	CAND. SIGN

443/1 AGRICULTURE PAPER 1 Time: 2 HOURS

**Kenya Certificate of Secondary Education – Mock Paper2** 

## **INSTRUCTION TO CANDIDATES**

- This paper consists of **THREE** sections: **A, B** and **C**.
- Answer **ALL** questions in section **A**.and**B**
- **ANY** Two questions from section **C**.

SECTION	MARKS	CAND. SCORE
A	30	
В	20	
С	40	
TOTAL SCORE	90	

SECTION A (30MKS)

1.	Give <b>two</b> characteristics of plantation farming.	(1mk)
2.	Name <b>two</b> chemical processes of weathering.	(1mk)
3.	State <b>two</b> advantages of organic farming .	(1mk)
4.	Outline <b>three</b> effects of soil organisms which benefit plant growth.	(1 <sup>1</sup> / <sub>2</sub> mks)
5.	Give <b>two</b> ways in which organic mulch help to conserve water in the soil.	(1mk)
6.	Give <b>two</b> types of labour records.	(1mk)
7.	Outline <b>four</b> ways in which land consolidation helps to improve farm man	agement.(2mk)
8.	List <b>six</b> factors that should be considered when grading a crop produce.	(3mks)
9.	State <b>four</b> importance of raising tomato seedlings in a nursery bed.	(2mks)

(2mks)

10. Give **four** ways of controlling weeds in a field of maize.

State <b>three</b> reasons for top dressing pasture.	$(1^{1}/_{2}mks)$
Give <b>four</b> reasons for training crops as a field practice	. ( 2mks)
State <b>three</b> activities the farmer carries out on a store before store	oring grains. (1 <sup>1</sup> / <sub>2</sub> mks)
Give <b>four</b> desirable characteristics of certified seeds.	(2mks)
(a) Outline <b>two</b> characteristics of nitrogenous fertilizers.	(1mk)
(b) Give the forms in which the following elements are availab  (i) Phosphorous	le to plants: (1mk)
List <b>three</b> general symptoms of viral diseases in crops.	$(1^1/_2 \text{mks})$
Give <b>four</b> factors that influence the choice of tools and equipm cultivation.	nent used in Primary (2mks)

	SECTION B. (20MKS)	
	agram below shows an adult crop pest which in its larval stage of sorghum to wither as shown in the diagram.	causes the middl
(')	Identify the pest.	$(^1/_2$ mks)
(i)	Give <b>two</b> ways of controlling the pest.	(2mks)

	(i)	Which one of the <b>three</b> varieties of sorghum is least likely to be d birds.	amaged by the $(^{1}/_{2}mks)$
(iii) State <b>two</b> methods that are used in controlling birds in a field of sorghum.(2r 20. The diagram below shows a method of bringing tea into bearing. Use it to answer th questions that follow  (i) Identify the specific method shown in the diagram.		_	
(iii) State <b>two</b> methods that are used in controlling birds in a field of sorghum.(2r 20. The diagram below shows a method of bringing tea into bearing. Use it to answer th questions that follow  (i) Identify the specific method shown in the diagram.			
(iii) State <b>two</b> methods that are used in controlling birds in a field of sorghum.(2r 20. The diagram below shows a method of bringing tea into bearing. Use it to answer th questions that follow  (i) Identify the specific method shown in the diagram.			
20. The diagram below shows a method of bringing tea into bearing. Use it to answer th questions that follow  (i) Identify the specific method shown in the diagram.	(ii)	Give a reason for your answer in (i) above.	(1mk)
questions that follow  (i) Identify the specific method shown in the diagram. (1/2n)	(iii)	State <b>two</b> methods that are used in controlling birds in a field of s	orghum.(2mks)
questions that follow  (i) Identify the specific method shown in the diagram. (1/2n)			
			o answer the
(ii) Describe the procedure of carrying out the above in a tea bush. (4m)	(i)	Identify the specific method shown in the diagram.	$(^1/_2mk)$
	(ii)	Describe the procedure of carrying out the above in a tea bush.	(4mks)

21. Us	e the diagrams below to answer the questions that follow	
(a)	Identify each of the soil structures labeled K and L	$(^1/_2$ mks)
	K	
	L_	
(b)	Give <b>one</b> place where the soil structure labeled L can be found.	(1mk)
(c)	State three ways in which a farmer can improve the structure of w	ater logged clay
	soil.	(3mks)
	e diagram below illustrates a vegetative propagation method. Study	it and answer the
que	estions that follow.	

(a)	Name the method used in preparing the above planting material.	$(^1/_2 \mathrm{mk})$
(b)	Name the crop propagated using the above method	(1mk)
(c)	Name the parts labeled X and Y X	(2mks)
	Y	
(d)	State one environmental condition necessary for the success of the above.	e method named in (a) (1mk)
23	SECTION C. (40MKS)  . (a) Describe the production of Kales under the following sub head	lings:-
23.	(i) Seedbed preparation	(3mks)
	(ii) Transplanting	(5mks)
	(iii) Field practices	(4mks)

b) Explain eight cultural control measures of diseases in crop production. (8	smks)
4(a) Below is a graphical representation of the law of diminishing returns. Exappens in each of the zones marked I, II and III in relation to output.	xplain what (3mks)
Zone marked I	
Zone marked II	
Zone marked III	

(b) Which of the <b>three</b> is a rational zone of production?	(1m)
(c) State any <b>six</b> precautions a potato farmer would take to minimize risk production of potatoes.	ks in the (6mks)
production of potatoes.	(OIIIKS)
(d) Explain <b>ten</b> factors to consider when selecting a farm enterprise	(10ml
(a)Give <b>six</b> precautions observed in pruning mature tea.	(6m
(b) Describe the procedure followed when collecting a soil sample from	
testing in the laboratory.	(6mks)

(c) Give <b>four</b> desirable characteristics of materials used in that the control of the control o	ne preparation of compost (4mks)
(e) Outline <b>four</b> advantages of intercropping crops.	(4mks