NAME	ADM	INDEX NO	
443/1			
AGRICULTURE			
PAPER 1			
TIME: 2 HOURS			

## SAMIA SUB-COUNTY JOINT EXAMINATION MOCK 2021

Kenya Certificate of Secondary Education

## Instructions:

- -This paper has three sections A,B and C.
- answer all questions in sections A and B.
- -Answer any two questions in section C.

## For Examiners use:

SECTION	QUESTIONS	MAXIMUM SCORE	STUDENTS SCORE
A	1-19	30	
В	20-23	20	
C	24	20	
	25	20	
	26	20	
TOTAL		90	

1.Name two situations under which irrigation is practiced (1mk)
2.Give a reason why ranching is an improvised pastoral nomadism (1mk)
3.State two ways by which a soil of PH 3 can be raised to a PH of 6 (1mk)
4.Outline two effects of adding organic matter to sandy soil (1mk)
5.State four functions of young farmers club in schools (2mks)
6.Distinguish between a perfect and imperfect market. (1mk)

7.Name four financial documents used in the farm (2mks)
8State four factors that determine the depth of planting (2marks)
9.State four minimum tillage practices (2marks)
10. Give four ways of improving labour productivity on a farm (2mks).
11 State four forms of agroforestry .(2mks)
12.A farmer plants maize on his piece of land measuring 40m by 30m at a seed rate of I seed per hole. If he used a spacing of 75cm by 25cm, Calculate this plant population.(2marks).

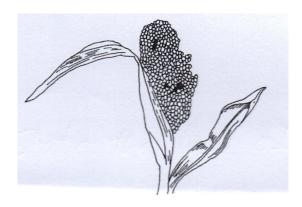
13.State four reasons for conserving forage (2marks)
14. Give four benefits of a land title deed (2mks)
15.State four steps of gully formation (2mks)
16.State two characteristics of a good root stock for grafting (1mk)
17.State two main causes of silage loses (1mk)
18.State four aims of land settlement programmes in Kenya (2mks)
19. Give two factors that influence the stage at which crop is harvested(1mks)

e illustration	ons below represent an experiment to compare the porosity and water holding of three types of soils. Carefully study the experiment and then answer the that follow
	Below are diagrams showing shoots of a tree crop pruned above the bud. Use them to answer the questions that follow
	(i) Identify the diagram showing the correct way of making the pruning cut (1mk)
	(ii) With reason in each case, why are the other pruning cuts not appropriate (3mks)
3	23. The illustrations be low represent an experiment to compare the porosity and water holding capaci of three types of se as. Carefully study the experiment and then answer the questions that follow
	funnel soil and water cotton wool  measuring cylinder  drained water
(a) Identi	fy the soil in each of the funnels labeled (3marks)
Н	
J.	

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(c) Which type of soil would be suitable for planting paddy rice? (½mk)

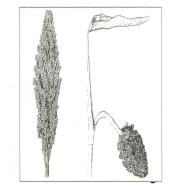
21. The diagrams below represent some panicles of varieties of Sorghum crop growing in the field. Study them carefully and answer the questions that follow.



Variety A



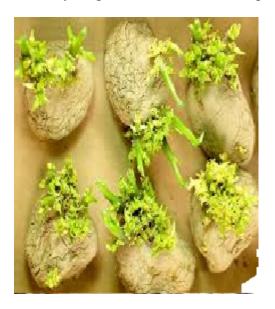
Variety B



Variety C

a)	Identify the types of panicles in each of the varieties represented by A,B and C Variety A(1mark)
	Variety B(1mark)
	Variety C(1mark)
0)	Which of the varieties named in (a) above is less easily damaged by bird pests(1mrk)
c)	The diagram below represents a pest labeled D that infests Sorghum plants during early stages of establishment
i)	Identify the pest
	(1mark)
i)	State two methods of controlling the pest named in C(i) above (2marks)

22.Study diagram below and answer questions that follow.



(ii) Name the farming practice illustrated above.(1mark)

(ii) Give the procedure followed to carry out the practice you have named in (i) above (3marks)

(iii) state the importance of carrying out the farming practice named above. (1 mark)

23. The diagram below shows common weeds, study them and answer the questions that follow.

	of State the effect of Crive one of	Journal Common pleads. Stady K	
a)	Identify the weeds J and K.	(2marks)	
	J		
	K		
b)	State the effects of weed labe	led Jto livestock.	(1 mark)
c)	Give <b>one</b> reason why it is diff	ficult to control the weed labeled L?	(1 mark)
	SECTION C (40 MARKS)		
	Answer only two questions in	this section in the spaces provided.	
24.	Describe the production of oni	ons under the following sub headings	S
a.E	cological requirements	(4 marks)	
b.P	lanting	(5 marks)	
c.	Field practices	(4 marks)	
d	Harvesting and marketing	(7 marks)	

25a.Outline eight uses of farm records (8 marks) b.Explain the various ways by which a farmer can adjust to risks and uncertainties (6 marks) c. State precautions taken when harvesting pyrethrum (6mks)  26a.Explain five causes of land fragmentation in Kenya since independence (5 marks) b.Describe the advantages of land consolidation and registration. (8 marks) c.Explain the objectives of land reform under taken in Kenya. (7 marks)		
