NAME	DATE				
ADMN NO.	•••••	CANDIDATE'S SIGNATURE	•••••		

443/2 AGRICULTURE PAPER 1 (THEORY) TIME: 2 HOURS

MOMALICHE 3 CYCLE 8 2021.

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INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the spaces provided above.
- 2. This paper has **THREE** sections: A, B and C
- 3. Answer ALL the questions in section A and B and any TWO questions in section C
- 4. ALL answers **MUST** be written in the spaces provided.
- 5. Do not remove any pages from this booklet.

SECTION A (30MARKS)

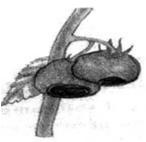
Answer ALL the question in this section in the spaces provided 1. Give one reasons why agriculture is regarded as a science (1mk)				
2. List four methods of farming (2mks)				
3. Differentiate between soil structure and soil texture (1mk)				
4. State four reasons for draining a water logged land (2mks)				
5. State two effects of siltation in dams and reservoirs (1mk)				
6. Give three benefits of undersowing in pasture production (1mk)				
7. Give four reasons for growing crops under optimum temperature condition (2mks)				
8. Name one vegetative material used to propagate each of the following crops (2mks)				
a. Bananas				
d. Pyrethrum				
10. What is meant by the following terms in crop as production? a. Crop rotation (1mk)				
b. Mulching (1mk)				

11. Give two factors than can increase seed rate in crop production (2mks)
12. State three functions of Nitrogen in crops (1 ½ mks)
13. State four ways of improving labour productivity on the farm (2mks)
14. State four advantages of applying lime as a measure of improving soil condition (2mks)
15. List three sources of organic matter in the soil (1 ½ mks)
16. List four post harvest practices that are carried out in maize production (2mks)
17. Give three factors affecting selectivity and effectiveness of herbicides (1 ½ mk)
18. What is meant by the term preference and choice as used in agriculture economics (1mk)

SECTION B (20 MKS)

Answer all questions in this section in the spaces provided

19. The diagram below shows a physiological condition of tomatoes . Use it to answer the following questions.



. o Identify the condition (1mlr)
a.Identify the condition (1mk)
b. Give three causes of the condition identified in (a) above (3mks)
20. The diagram drawn below shows pests that attack crops in the field. Use it to answer the questions that follows.
a.Identify the pest (1mk)
b. Classify the above pest depending on the feeding habit (1mk)
c. List three effects of the pest above in crop production (3mk)
21. The diagram below illustrates a final seedbed after a tertiary operation done during land preparation.

Study it carefully and answer the questions that follow a.Name the tertiary operation carried out on the seedbed (1mk)

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b. Describe how the tertiary ope	eration named in (a) above is carr	ried out (2mks)
• •	ing crops on the final seedbed ill	lustrated above (2mks)
22. The table below shows the p	population and gross domestic pr	roducts of countries A and B
•	ce (Million Population (Million)	
Country	Gross Domestic	Population[million]
A	Produce[million] 1800	36
В	1200	15
	1200	
a.Calculate the per capita incom	ne for each country. Show your v	vorking (3mks)
b. Which of the two countries is	s more developed economically ((1mk)
c. Give a reason for your answe	, ,	
	the gross domestic product of a	
-		
SECTION C (40 MARKS)		
Answer any TWO questions fro	m this section in the spaces prov	ided after question 25
23 a. Discuss production of	beans (<i>Phaseolus Vulgaris</i>) und	ler the following subheadings
<u> =</u>	ion of planting materials (3mks	
ii. Planting (3mks		

iii. Disease control (2mks)
b. Outline four factors that determine the depth of planting maize seeds (4mks)
c. Outline the advantages of a mixed grass legume pasture over pure grass (8mks)
24 a. Explain the factors that contributes to competitive ability of weeds (7mks)
b. State five factors that determine the choice of irrigation to use in the farm (5mks)
c. Outline five characteristics of fertile soil (5mks)
d. Name three types of soil water? (3mks

	•••
25a. Describe five characteristics of Nitrogenous fertilizers (5mks)	
25a. Describe five characteristics of ividogenous fertilizers (5mks)	
b. Discuss the guidelines that should be followed when planning a crop	
rotation programme (10mks)	
	• • •
	• • •
	•••
c. Explain the importance of a nursery in crop propagation (5mks)	