THE ELITES JET









443/1

AGRICULTURE PRE-MOCK

Paper 1

March 2025 - Time: 2 hours

Name	A	dm No	Class
School	Date	Sign	• • • • • • • • • • • • • • • • • • • •
Instructions to Condidates			

Instructions to Candidates

- a) Write your name, school and Admission Number in the spaces provided above.
- b) Write your class, date of examination and sign in the spaces provided above.
- c) Answer ALL questions in the spaces provided in the question paper.
- d) This paper consists of three sections A, B and C.
- e) Answer all the questions in section A and B and any two questions in section C.
- f) This paper consists of 12 printed pages.
- g) Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- h) Candidates must answer the questions in English.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-15	30	
В	16-19	20	
С	20-22	40	
TOTAL	SCORE	90	

SECTION A: (30 MARKS)

Answer all questions in this section.

 Five four reasons for seed selection in crop production. 	
2. Five four reasons for seed selection in crop production.	
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	(2 marks)
3. Give four reasons why a well-drained soil is suitable for crop production	on. (2 marks)
4. State four types of land reforms practiced in Kenya.	(2 marks)
5. Give four ways of controlling weeds in maize field.	(2 marks)
	•••••
6. State four benefits of using organic mulches.	(2 marks)









7.	Name four farm records that should be kept by a poultry farmer.	(2 marks)
8.	State four characteristics of a fertile soil.	(2 marks)
9.	State four advantages of using polythene sleeves to propagate stem cuttings.	(2 marks)
10.	List four factors that determine the depth of planting.	(2 marks)
11.	Name four types of water pumps that can be used on the farm.	(2 marks)
12.	State four factors that should be considered when classifying crop pests.	(2 marks)









13. Name four types of grasses grown in high altitude areas as forage.	(2 marks)
14. State four factors to consider when grading tomatoes for fresh market.	(2 marks)
15. State four implements used for primary cultivation.	(2 marks)
	•••••





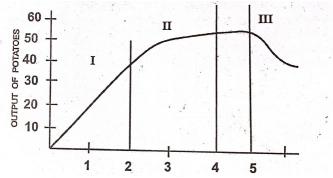




SECTION B: (20 MARKS)

Answer all questions in this section

16. Below is a graphical presentation of the law of diminishing returns.



a)	1 2 3 4 5 Identify the law illustrated by the graph.	(1 mark)
,		
b)	Explain how each additional unit of fertilizer input relates to the total output of II and III.	maize in phase
	(i) Phase II	(2 marks)
	(ii) Phase III	(1mark)
c)	State the importance of the law identified in (i) above to the maize farmer.	(1 mark)

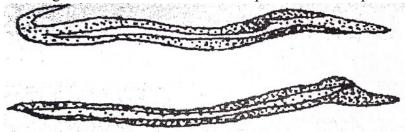








17. The diagram below shows a soil borne pest that attacks plant roots.



a)	Identify the pest.	(1 mark)
b)	State two symptoms of attack by the pest in tomato production.	(2 marks)
c)	State two control measures for the pest.	(2 marks)

18. A farmer is advised to apply 60kgN, 20kgP₂O₅ and 30kg K₂O per hectare. Calculate the quantity of urea (46%N), Single Super Phosphate (20%P₂O₅) and muriate of potash (50% K₂O) the farmer should apply on his 10 hectares of land. (5 marks)









19. The diagram below shows the method of grafting.



a)	Identify the method of grafting.	(1 mark)
b)	Name two other methods of grafting apart from the one illustrated.	(2 marks)
c)	Give two reasons why farmer may prefer using the grafting method illustrated.	(2 marks)









SECTION C: (40 MARKS)

Answer any two questions in this section

20.	. (a) Describe any ten cultural methods of controlling crop pests.	(10 marks)
		•••••
	(b) Describe five types of soil erosion by water.	(10 marks)
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21. (a) Describe the production of rice (<i>Oryza sativa</i>) under the following sub-headings.			
i)	Land preparation.	(3 marks)	
ii)	Weed control.	(2 marks)	
 iii)	Fertilizer application	(2 marks)	
iv)	Water control.	(3 marks)	
•••••			









	(10 marks)
(a) Explain five factors influencing crop rotation.	(10 marks)
	(10 marks)









(b) Explain five ways in which soil fertility can be maintained.	(10 marks)

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