

Name:Index No:
Candidate's Signature:.....
Date:

443/1
AGRICULTURE
PAPER 1
TIME: 2 HOURS

Kenya Certificate of Secondary Education

443/1
Agriculture
Paper 1
2 hours

INSTRUCTIONS TO CANDIDATES:

- This paper contains **three** sections A, B and C
- Answer **ALL** the questions in section A and B
- Answer any **Two** questions from section C
- All answers should be written in the spaces provided.

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-23	20	
		20	
		20	
TOTAL		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

SECTION A (30 MARKS)

Answer ALL the questions in this section in the spaces provided

1. State any **two** disadvantages of pastoral-nomadism system of farming (1mk)
.....
.....
2. Under what condition in agriculture, does opportunity cost exist? (½ mk)
.....
.....
3. Explain **two** ways in which scarcity of resources affect agricultural production (1mk)
.....
.....
4. What is a Farm record? (1mk)
.....
.....
5. Give **four** farming practices that may help in achieving minimum tillage. (2mks)
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.....
6. State **four** ways in which herbicides work to kill weeds (2mks)
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.....
.....
7. Give **four** groups of pesticides as classified according to mode of action (2mks)
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8. Give **three** forms of damage that nematodes cause on crops (1 ½ mks)
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.....
9. State **three** factors that affect the rooting of cuttings used to propagate crops (1 ½ mks)
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.....
10. Give **two** reasons why crowns are preferred to suckers in the propagation of pineapples (1mk)

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11. List **two** examples of Potassic fertilizers (1mk)
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-
12. State **three** ways in which nitrogen is returned to the atmosphere in the nitrogen cycle. (1 ½ mks)
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13. State **four** symptoms of potassium deficiency in crops (2mks)
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14. State **four** methods of controlling river bank erosion (2mks)
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15. State **four** natural factors that influence the rate of soil erosion (2mks)
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-
16. Give **four** reasons why a well drained soil is suitable for crop production (2mks)
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-
-
-
17. List **four** pasture legumes grown in medium altitude zones (2mks)
-
-
-
-
18. State **four** examples of variable inputs used in sugarcane production (2mks)
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-
-
-
19. Give **four** causes of risks and uncertainties in agricultural production (2mks)

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SECTION B (20MARKS)

Answer ALL Questions in this section

20. (a) The following is a list of vegetable crops; kale, tomatoes, brinjals, carrots, tulips, melons and cabbages
Which of the above crops are:

(i) leaf vegetables _____ (1mk)

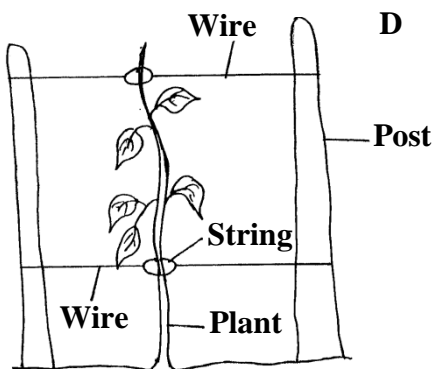
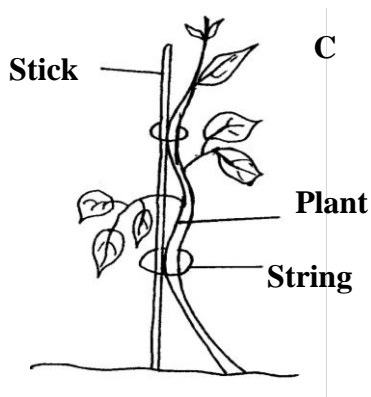
(ii) fruit vegetables _____ (1mk)

(iii) Root vegetables _____ (1mk)

(b) State **two** factors that would be considered when grading tomatoes for the fresh market. (2mks)

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21. The diagram below show two methods of training crops



(a) Name the methods of training crops labeled **C** and **D** (2mks)

C _____

D _____

(b) State **three** reasons for training crops (3mks)

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22. On 14th January, Booster Agrovet supplied the goods listed below to SUO farm P.o Box 203 Nambale:

20 bags of layers mash at a price of Ksh.1,200 per bag

5 bags of dairy meal at a price of Ksh.850 per bag

10kg (1 bag) of hybrid maize seeds at a price of Kshs.27,600

2 bags of DAP at a price of Ksh.1,250 per bag

(a) Use the information above to prepare an invoice (4mks)

(b) State the use of an invoice in farm accounts (1mk)

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23. (a) Give the characteristics colour for each of the following inorganic fertilizers

(i) Diammonium phosphate (½ mk)

.....

(ii) Calcium ammonium nitrate (½ mk)

.....

(iii) Ammonium sulphate nitrate (½ mk)

.....

(iv) Urea (½ mk)

.....

(b) State **two** factors that would determine the quantity of fertilizer applied (2mks)

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(c) State **two** methods of fertilizer application. (1mk)

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SECTION C (40MARKS)

Answer any two Questions in this section

24. (a) State **four** objectives of the million acre settlement scheme (4mks)

(b) Explain **six** effects of land fragmentation on agricultural production (6mks)

