THE KENYA NATIONAL EXAMINATIONS COUNCIL Kenya Certificate of Secondary Education

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AGRICULTURE (Theory)

Nov. 2023 - 2 hours

Serial No.		
26993338		

Paper 1

Name:	Index Number:
Candidate's signature:	Date:

Instructions to Candidates

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of three sections; A, B and C.
- (d) Answer all the questions in sections A and B.
- (e) Answer any two questions in section C.
- (f) All answers should be written in the spaces provided.
- (g) Non-programmable silent electronic calculators may be used.
- (h) This paper consists of 16 printed pages.
- (i) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (j) Candidates should answer the questions in English.

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 - 15	30	02
В	16 - 19	20	
A		20	8
C	Nac.	20	
T	otal Score	90	

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SECTION A (30 marks)

Answer all the questions in this section in the spaces provided.

1	State four roles of agroforestry trees in soil and water conservation.		(2 marks)
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			(2 marks)
2	State four factors that determine spacing in crop production.		(2 marks)
		1	12
3	Give four reasons why organic farming is important.		(2 marks)
3	Give four reasons may eagain and a		

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¥ ¥ 4			
¥ • 4	State four advantages of applying nitrogenous fertilizers in splits.		(2 marks)
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			(2 marks)
5	State four factors which limit a farmer's access to agricultural credit.		(2 marks)
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	6	Name four sources of surface water.	(2 marks)	
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			•••••••	
	7	Give four reasons why land consolidation should be undertaken in densely populated	areas. (2 marks)	
	8	Give four reasons why maize farmers should control strong wind in their crop fields.	(2 marks)	
				7
	9	State four aspects of rainfall that influence coffee farming.	(2 marks)	A 144 144 A
1				4
	10	State four reasons why a farmer should avoid excess nitrogenous fertilizer in tomato production.	(2 marks)	
			••••••	



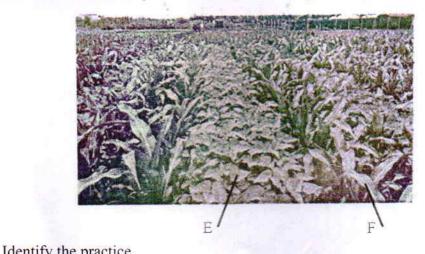
11	State four disadvantages of using suckers as planting materials.	(2 marks)
12	Give four ways of breaking seed dormancy.	(2 marks)
13	State four factors considered when selecting stem cuttings for planting cassav	va. (2 marks)
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		······
14	Give four reasons for sub-soiling in land preparation.	(2 marks)
		,
15	State four methods of treating water for use on the farm.	(2 marks)

SECTION B (20 marks)



Answer all the questions in this section in the spaces provided.

16 The picture below shows the practice a farmer used to grow crops.



	(a)	Identify the practice.	(1 mark)
	(b)	State two factors that determine the selection of the crop labelled E.	(2 marks)
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* * * * * * * * *	(c)	Give two ways in which the crop labelled F benefits from the practice	(2 marks)
Ó	•••••		
7	A tor	nato crop infected by a disease shows the following symptoms:	
		brown lesions on stems, leaves and fruits; its appear rotten and fall prematurely.	朝
	(a)	Identify the disease.	(1 mark)
	(b)	Name the causal organism of the disease.	(1 mark)

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18 The following is a picture showing a sorghum plant infested by a pest.



(a)	Identify the pest.		(1 mark)
(b)	Give two reasons for your answer in (a).	A - 4 - 2 - 1 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2	(2 marks)
		14	
(c)	State two control measures for the pest.		(2 marks)
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(a)	Identify the weed.	(1 mark)
(b)	Give three effects of the weed on the pasture crop.	(3 marks)
(c)	State the appropriate growth stage at which the weed should be controlled.	(1 mark)
	SECTION C (40 marks)	
An	swer any two questions from this section in the spaces provided after question is	22.
(a)	Explain six factors considered when designing a crop rotation programme.	(6 marks)
(b)	Explain four control measures of river bank erosion.	(4 marks)
(c)	Explain two ways in which each of the following factors influences crop pro	duction:
	 (i) relative humidity; (ii) light; (iii) temperature. 	(2 marks) (2 marks) (2 marks)
(d)	Give four roles of 4-K clubs in Kenya.	(4 marks)

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	21	(a)	Describe ten ways in which farmers who grow beans can cope with risks and uncertainties.	l (10 marks)			
		(b)	Explain ten factors that influence soil erosion.	(10 marks)			
44	22	(a)	Give five pieces of information kept in feeding records on a dairy farm.	(5 marks)			
ψ.		(b)	Describe the field management practices for cabbage production.	(9 marks)			
中本本中		(c)	Give six benefits of establishing onions using a nursery bed instead of direct	sowing. (6 marks)			
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