THE ROYAL EXAM SERIES

Kenya Certificate of Secondary Education

443/1 - AGRICULTURE - Paper 1



FORM 4 TERM 2



DECEMBER 2021-2 HOURS

Name	Index Number:
School	
Candidate's Signature	Date

INSTRUCTIONS TO CANDIDATES:

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of three sections A, B and C.
- *Answer all the questions in section A and B.*
- Answer any two questions in section C.
- All answers should be written in the spaces provided.
- This paper consists of 11 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer all the questions in English.

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
В	18-21	20	
С		20	
		20	
	TOTAL SCORE	90	

SECTION A (30 MARKS)

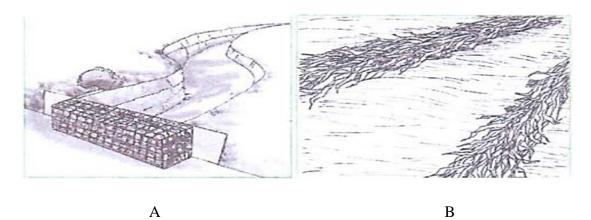
1.	State two benefits of optimum soil temperature in crop production	(1 mark)
2.	Name three branches of horticulture.	$(1\frac{1}{2}mks)$
3.	State four factors a farmer should consider when choosing the farming system	to undertake.
	(2marks)	
4.	List four methods of farming	(2marks)
		• • • • • • • • • • • • • • • • • • • •
5.	Give four pieces of information found on a delivery note.	(2marks)
6.	State four reasons for deep ploughing during land preparation.	(2marks)

7.	Give four soil factors that influence soil productivity.	(2 marks)
		• • • • • • • • • • • • • • • • • • • •
8.	Give three factors affecting elasticity of demand	$\left(1\frac{1}{2}mks\right)$
9.	Differentiate between seed inoculation and seed dressing.	(1mark)
		• • • • • • • • • • • • • • • • • • • •
10		
10.	State four effects of soil erosion.	(2marks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
11.	Outline four practices necessary to improve and maintain permanent pastures.	(2marks)
		• • • • • • • • • • • • • • • • • • • •
12.	State four factors that affect the rooting of cuttings in tea and sugar cane.	(2 marks)

13. State four reasons for mulching.	(2 marks)
14. Give the function of each of the following in the preparation	n of compost manure. (2marks)
a) Top soil	(======)
u) Top son	
	•••••
1. W. H	•••••
b) Well rotten manure	
c) A thin layer of wood ash	
d) Long pointed stick	
15. State four deficiency symptoms of phosphorus.	(2 marks)
	(2
16. State four characteristics of nitrogenous fertilizers.	(2 marks)
17. Give two reasons why root pruning is done in the nursery r	management in agro forestry.
(1 mark)	

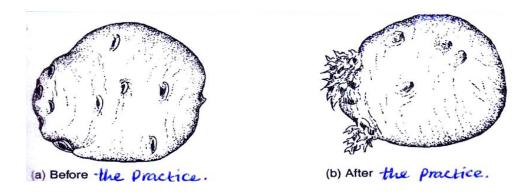
SECTION B (20 MARKS)

18. The illustrations labelled A and B show some farm structures used in soil and water conservation. Study them carefully and answer the questions that follow.



a)	Identify structures A and B.	(1 mark)
	A	
	B	
b)	Name the type of soil erosion controlled by structures A and B.	(2 marks)
	A	
	B	
c)	State two ways in which the structures help to control soil erosion.	(2 marks)

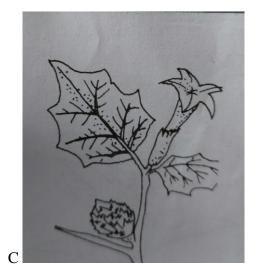
19. The diagrams below illustrate irish potato seed preparation before planting. Study it carefully and answer the questions that follow.



a) Name the practice used in preparing the seed potato above before planting. (1 mark)

b)	Describe the precedure followed in preparing the good notatoes for plenting	(2 mortes)
b)	Describe the procedure followed in preparing the seed potatoes for planting.	(3 marks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • • • • • • • • •
c)	Give one reason for carrying out the practice named above.	(1 mark)
C)		
	he diagram below shows a tomato fruit affected by a pest. Study it carefully the uestions that follow.	n answer the
	P	
(a	a) Identify the pest labeled P (1 m	nark)
(b	b) State one method used to control the pest. (1	mark)
,	· · · · · · · · · · · · · · · · · · ·	
(c	State any three factors to consider when selecting tomato fruits for marketing	g. (3 marks)

21. The photographs below show common weeds C and D in pasture land. Study them carefully and answer the questions that follow.





a)	Identify weeds C and D.	(2 marks)
	C	
	D	
b)	Classify weed D according to plant morphology.	(1 mark)
		• • • • • • • • • • • • • • • • • • • •
c)	State the major problem posed by each of the weeds above in pasture land.	(2 marks)
	C	
	D	

SECTION C (40MARKS)

c) Explain **four** importance of crop rotation.

22. a) State five benefits of sowing annual crops early.	(5marks)
b) Describe eight effects of fragmentation and sub division of land.	(8marks)
c) Explain how government policies affect agricultural production.	(7 marks)
23. a) Describe the various field management practices for tomatoes.	(8marks)
23. a) Describe the various field management practices for comatoes.	(Olliarks)
b) State the precautions that should be observed when harvesting cotton.	(4marks)

(8marks)

24. a) Explain four factors to consider in choosing the type of irrigation to use in the farm.		
		(8marks)
	b) Explain five farming practices that destroy soil structure.	(5marks)
	c) Describe seven reasons why farmers need to keep good farm records.	(7marks)
		• • • • • • • • • • • • • • • • • • • •

