NAME	CLASS	. No	CLASS	SIGN

INDEX No	
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NYABURURU GIRLS' NATIONAL SCHOOL
OUR LADY OF LOURDES

DATE DONE
INVIGILATOR
DATE RETURNED
DATE REVISED

Kenya Certificate of Secondary Education

**AGRICULTURE PAPER 443/1** 

PAPER 1

**TIME: 2 HOURS** 

## **INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided above.
- This paper consists of **THREE** sections: A, B and C
- Answer **ALL** the questions in sections A and B and any **TWO** questions in section C
- ALL answers **MUST** be written in the spaces provided.
- This paper consists of 8 printed pages.
- Candidates should check to ensure that all pages are printed as indicated and no question is missing

## **FOR EXAMINER'S USE ONLY**

	Questions	Maximum score	Candidate's score
A	1 - 19	30 marks	
В	20 - 24	20 marks	
С	25 – 27	40 marks	
	Total	90	

(1mark)

- 7. State how you can prevent the following conditions during carrot production. (1 ½ marks)
  - (a) Cracking.
  - (b) Forking.

(a) Economic injury level

(2marks)

19. State four advantages of practicing mixed farming in Kenya.

## **SECTION B (20 MARKS)**

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

20. The diagram below illustrates a crop disease. Study it carefully and use it to answer the questions that follow



(a) Identify the disease illustrated above

(1mark)

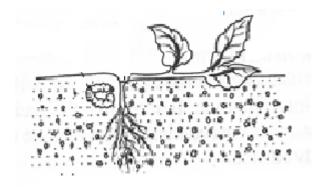
(b) Give two causes of the disease you have identified in (a) above.

(2marks)

(c) State two control measures of the disease illustrated above.

(2marks)

21. Below is an illustration of a cabbage seedling attacked by a pest. Study it carefully and answer the questions that follow.



(a) Identify the pest illustrated above.

(1mark)

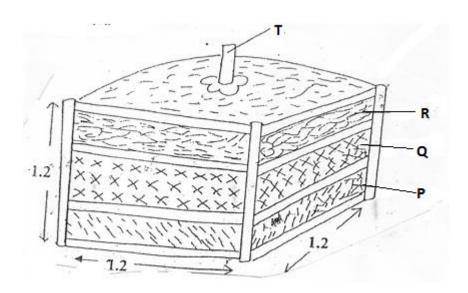
(b) State how the pest causes damage to the crop.

(1mark)

(c) Give one method of controlling the pest illustrated above.

( ½ mark)

22. The diagram below illustrates the preparation of compost manure. Study it carefully and answer the questions that follow



(a) Identify the layers labeled P, Q and R

(1½marks)

Р

Q

R

(b) State one use of the parts labeled P and T

(2marks)

Ρ

Т

23. The diagram below is of a tea cutting. Study it carefully and answer the questions that follow

- (a) Identify the disease (1mark)
- (b) Apart from maize, give two other crops that are attacked by the disease (1mark)
- (c) state two methods of controlling the disease. (2marks)
- 24. The table below illustrates the yield of maize in 50kg bags in response to application of different quantities of planting fertilizers. Study it carefully and answer the questions that follow

Fertilizer input	Maize output in	Average product (AP)	Marginal product
in 50kg bags	50kg bags		(MP)
0	6		
50	10	10.0	10.0
100	24	12.0	
150	31		7.0
200	36		5.0
250	40	8.0	
300	43		3.0
350	43		0
400	40		

- (a) Complete the table by filling the blank spaces. (4marks)
- (b) Suggest the best stage of production in relation to fertilizer application. (1mark)

NAMECLASS NoC					CLASS SIGN	
	SECTION C (40 MAR	RKS)				
	Answer only two questions	in this section in	the sp	aces provide	ed	
25. (a) Explain the sources of capital to a farmer. (10marks					(10marks)	
(b). Describe the factors that influence the soil erosion. (10mar				(10marks)		
26. (a)	Describe the establishment of	of Nappier grass (	under t	he following	sub-headings	
i.	Varieties				(2marks)	
ii.	Land preparation				(4marks)	
iii.	Planting.				(4marks)	

(b) Explain the advantages of a mixed legume - grass pasture. (6marks)

(4mark)

Utilization

iv.

27. State and explain the stages followed when treating large volumes of water. (12marks)(b) Explain the ways by which farmers can adjust to risks and uncertainties. (8marks)