

NAME.....INDEX NO.....

SCHOOL.....SIGN.....DATE.....

443/1

AGRICULTURE

PAPER 1

TIME: 2 HOURS

DECEMBER, 2020

MERU CENTRAL CLUSTER EXAMINATION (2020)

Kenya certificate of secondary education (k.c.s.e)

INSTRUCTIONS TO CANDIDATES

- Write your name, school and index number, in the spaces provided above.
- Sign and write the date of the 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** and **any two** questions from section **C**.
- All answers must be written in the spaces provided in this booklet

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-15	30	
B	16-19	20	
C		20	
		20	
	Total score	90	

SECTION A (30 MRKS)

1. Differentiate between olericulture and pomoculture as used in crop production .(1mrk)

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2. Give four methods of farming (2mrks)

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3. Give two examples for each of the following types of cost incurred in broiler production .

a) Variable cost (2 marks)

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b) fixed cost (2 marks)

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4. Give **four** advantages of crop rotation .(2mrk)

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5. State **four** factors that should be considered when classifying crop pest (2mrks)

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6. a) Name **four** pieces of information contained in a land title deed (2mks)

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b) Name **two** forms of collective land tenure system. (1mk)

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7. List **four** post – harvest practices that are carried out in maize production (2mks)

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8. What is opportunity cost? (1/2 mk)

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9. Outline **four** ways of improving lab our productivity (2mks)

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10. State **four** factors that can affect the efficiency of pesticides (2mks)

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11 List **four** sites on which agro forestry trees can be established on a farm. (2mks

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12.Give **four** advantages of using seeds over vegetative materials. (2 mks)

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13.State **four** features that should be considered when choosing water pipes for use on the farm. (2 mks)

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14.Give **three** reasons why primary cultivation should be done early before the onset of the rains(1 ½)

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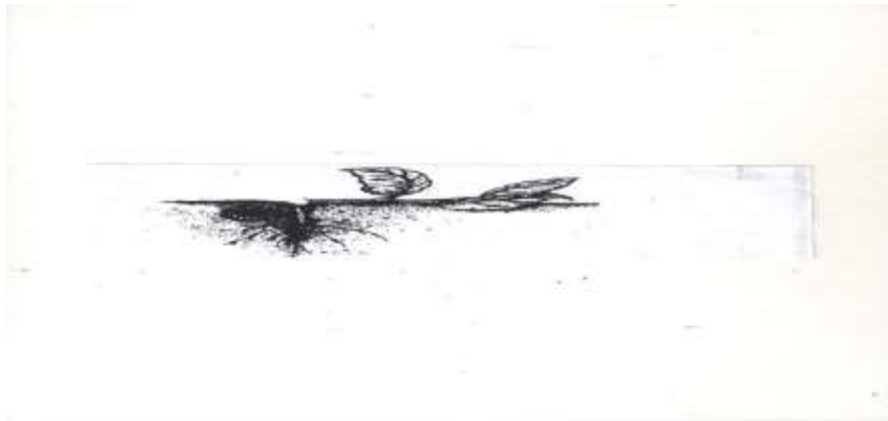
15. Give **four** suitable characteristics of plants used as green manure. (2mks)

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SECTION B: (20 marks)

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

16. The diagram below shows a pest and the damaged crop study it and answer the questions that follow.



a) Identify the pest illustrated above

(1mk

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b) Explain **two** ways of controlling the pest

(2mks

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c) State **two** ways in which the pest economically important. (2mks)

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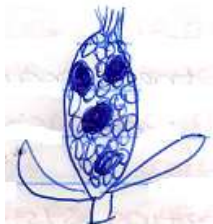
17. a) Distinguish between straight and compound fertilizers. (1mk)

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b) A farmer applied 200kg of C A N (20%N) per hectare maize crop. Calculate the amount of Nitrogen applied on his 5 hectare crop. Show your working (4mks)

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18The diagram below shows a maize cob attacked by a certain disease. Study it and then answer the following questions.



a) Identify the disease (1 Mk)

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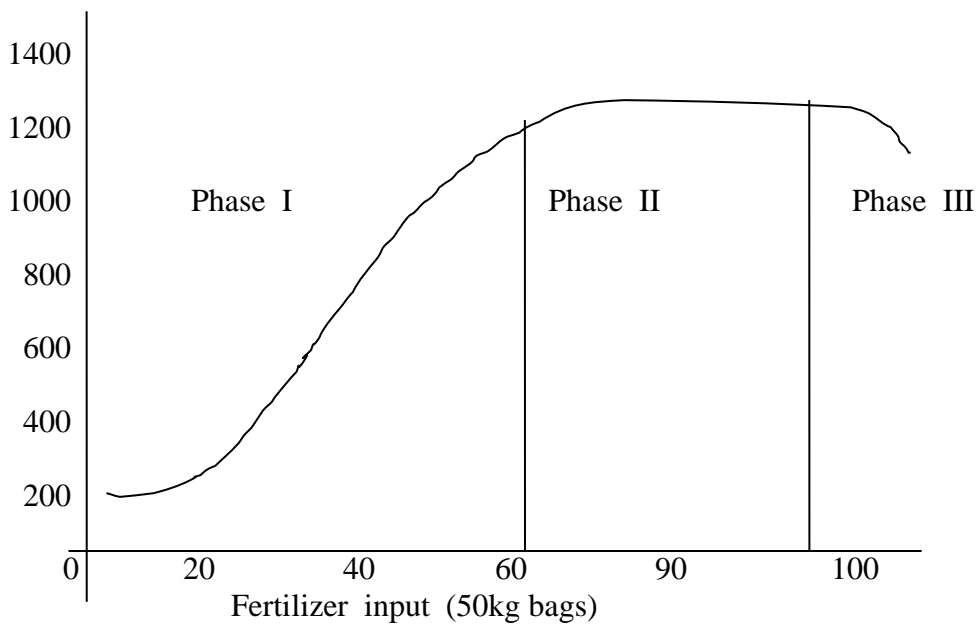
b) Name **two** causal organism of the disease. (1 Mk)

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c) State **three** cultural methods of controlling the disease. (3 Mks)

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19. Below is a graphical representation of a law in agricultural economics. Study the graph carefully and answer the questions that follow.



a) State the law illustrated by the graph (2mk)

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b) Explain how each additional unit of fertilizer input relates to the total output of maize in **phases II and III** .(2 mks)

Phase II

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Phase III

(1mk

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c) State the importance of the law identified in (I) above to the maize farmer (1mk

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SECTION C (40MARKS)

Answer any two questions in this section in the spaces provided

20a) Explain **five** factors that should be considered in farm planning. (10 Mks)

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b) Describe transplanting of tomatoes seedling. (10 Mks)

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ii) Water control

(2 Mks)

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iii) Fertilizer application

(2 Mks)

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iv) Weed control

(2 Mks)

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