

NAME:.....

INDEX NO. ....

CLASS .....

CLASS NO. ....

443/2  
AGRICULTURE  
PAPER 1  
PRE-MOCKS – 2013  
2 HOURS

**INSTRUCTIONS** : Answer all the questions in section A and B in the spaces provided and any two questions in section C.

FOR EXAMINERS USE ONLY.

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 16	30	
B	17 - 20	20	
C	21 - 23	40	
		90	

1. Name the part harvested for each of the following crops. ( ½ mks)
- a. Onions - ( ½ mks)
- b. Carrots - ( ½ mks)
- c. Coffee - ( ½ mks)

2. State four biotic factors that influence crop production. (2mks)
- i.
- ii.
- iii.
- iv.
- v.

3. Name four methods of controlling crop pests. (2mks)
- i.
- ii.
- iii.
- iv.

4. State four ways of Harvesting water on the farm. (2mks)
- i.
- ii.
- iii.
- iv.

5. Name four farm Records that should be kept by a poultry farmer. (2mks)
- i.
- ii.

iii.

iv.

7. Give two ways in which pastures are classified.

(1mk)

i.

ii.

8. State four disadvantages of organic mulches.

(2mks)

i.

ii.

iii.

iv.

9. Give five advantages of practicing crop rotation.

(2 ½ mks)

i.

ii.

iii.

iv.

v.

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10. State two advantages of earthing up in crop production.

(1mk)

i.

ii.

11. Give four harmful effects of weeds on crop production.

(2mks)

i.

ii.

iii.

iv.

12. State three advantages of shifting cultivation.

(1 ½ mks)

i.

ii.

iii.

iv.

13. Give five advantages of zero grazing in dairy farming.

(2 ½ mks)

i.

ii.

iii.

iv.

v.

14. State four factors that determine the stage at which a crop is harvested. (2mks)

i.

ii.

iii.

iv.

15. State four ways in which land Reform can be implemented in Kenya. (2mks)

i.

ii.

iii.

iv.

16. Give four factors that influence the number of secondary cultivation in seedbed preparation. (2mk)

i.

ii.

iii.

iv.

**SECTION B ( 20 MARKS)**

17. The illustration below shows a structure used for controlling soil erosion. Study it carefully and answer the questions that follow.

a. Identify the structure. (1mk)

b. Explain two ways in which the structure helps to control soil erosion. (2mks)

i.

ii.

18. The diagram below illustrates a maize cob attacked by a disease. Study it carefully and answer the questions that follow.

- a. Identify the structure. (1mk)
- b. Apart from maize, give two other crops that may be attacked by the disease. (1mk)
- i.
- ii.
- c. State two methods of controlling the disease. (2mks)
- i.
- ii.

19. The diagram below illustrate common weeds in arable land. Study them carefully and Answer the questions that follow.

- a. Identify the weeds labeled D and E. (2mks)  
D -  
E -
- b. Classify the weed labeled C according to plant morphology. (1mk)
- c. Give one reason why it is difficult to control the weed labeled D. (1mk)
- d.i. State two reasons for controlling weed E. (1mk)



ii. Name two Herbicides that can be used to control weed E in a field of maize. (1mk)

a.

b.

iii. At what stage of growth of maize should the weed E be controlled using post-emergency herbicide. (1mk)

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20. A farmer requires to apply 200kg/ha of Nitrogen in his farm. The fertilizer available is D.A.P whose fertilizer grade is 18:46:0

i. How much D.A.P should he apply. (3mks)

ii. How much  $P_2O_5$  (phosphorus pentoxide) should he apply. (3mk)

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**SECTION C:**

**Answer any Two questions in this section.**

- 23.a. Explain five factors that should be considered when planning a crop rotation programme. (10mks)
- b. Describe the transplanting of Tomato seedlings. (10mks)
- 24.a. Explain five factors that should be considered when siting a vegetable nursery. (5mks)
- b. Explain six factors that should be considered when selecting seeds for planting. (6mks)
- c. Explain the different ways in which each of the following environmental factors influence crop production.
- i. Temperature (4mks)
- ii. Wind (5mks)
- 25.a. Outline the information contained in a field operation Records. (5mks)
- b. Describe the harvesting of Tea. (6mks)
- c. Explain the importance of drainage as a land reclamation method. (5mks)
- d. Describe the role of magnesium in crop production. (4mks)

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