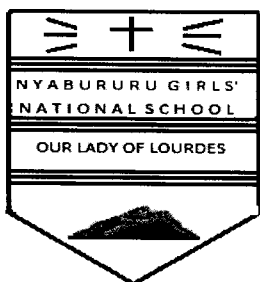


Name.....Adm. No.....class.....c/No.....sign.....

c



DATE DONE.....
INVIGILATOR.....
DATE RETURNED.....
DATE REVISED.....

FORM THREE AGRICULTURE

TERM TWO 2016

MAKE UP

PAPEER 443/1

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name and admission 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.
- 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	01-14	30 marks	
B	15- 18	20 marks	
C	19 -21	40 marks	
Total score		90 marks	

SECTION A. (30 MARKS)

Answer ALL questions in this section in the spaces provided.

1. State four methods of acquiring land in Kenya. (2 Marks)

2. Write down four edaphic factors which influence Agriculture. (2 Marks)

3. a) Explain the term layering as it is used in vegetative propagation. (1 Mark)

- b) Give any four benefits of tissue culture in crop production. (2 Marks)

4. State four ways by which plant nutrients may be lost from the soil (2mks)

- b) Outline four pieces of information contained in a land title deed (2mks)

5. a) List four economic importance of crop pests. (2 Marks)

Name.....Adm. No.....class.....c/No.....sign.....

- b) Explain the term integrated Management (I.P.M) (1 Mark)
6. List two aspects of rainfall that influence crop growth. (1 Mark)
7. State two benefits for minimum tillage. (1 Mark)
8. a) List four types of terraces. (2 Marks)
- b) Give four reasons for draining swampy farmland. (2 Marks)
9. State two reasons for earthing up in crop propagation. (1 Mark)
10. State two conditions under which opportunity cost exists in a farming enterprise (1 Mark)
11. State four functions of Nitrogen in the soil to plants. (2 Marks)
12. Give two benefits of possessing a land title-deed to a farmer. (1 Mark)

13. a) State four factors that determine the quality of farm yard manure. (2Marks)

b) Name two field practices carried out to obtain optimum plant population in a crop field (1mark)

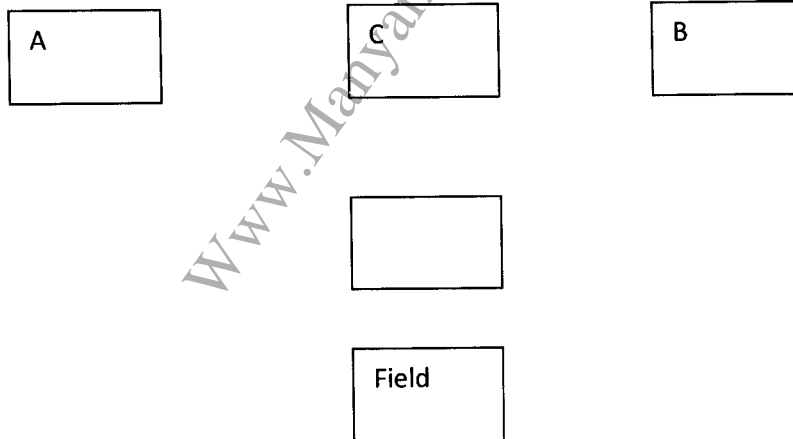
14. Name the vegetative parts each of the following crops which is propagated

- (i) Sweet potatoes (½ mark)
- (ii) Cassava (½ mark)
- (iii) Bananas (½ mark)
- (iv) Irish potatoes (½ mark)

SECTION B (20 MARKS)

Answer ALL the questions in the spaces.

15. The illustration below shows a method of making compost manure. Study it and answer the questions that follow.



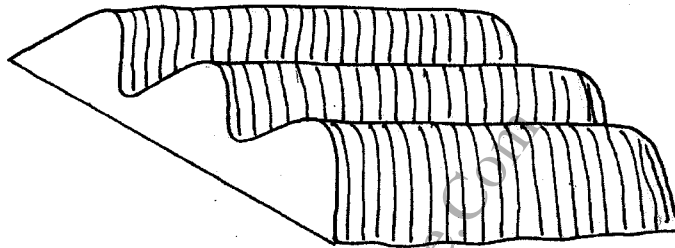
- (a) By use of arrows show how the decomposed materials should be transferred (1mk)
- (b) Identify the above method of preparing compost manure (1mk)
- (c) Give one reason for turning the compost materials regularly (1mk)

Name.....Adm. No.....class.....c/No.....sign.....

(d) Give one reason for sprinkling water on the structure (1mk)

(e) Outline three characteristics of plants suitable for green manure (3mks)

16. The diagram below represents a ground surface after a tertiary operation

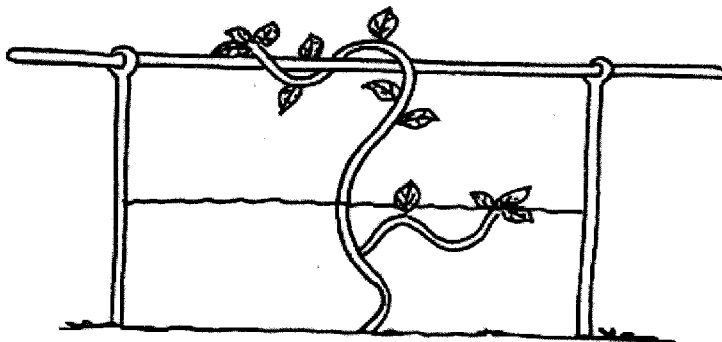


(a) Identify the tertiary operation illustrated above (1mk)

(b) Give two crops whose establishment require the tertiary operation illustrated above (2mks)

(c) State three advantages of carrying out the above tertiary operation (3mks)

17. The diagram below illustrates a field management practice. Study it carefully and answer the questions that follow



Name.....Adm. No.....class.....c/No.....sign.....

- (a) Identify the field practice above (1mk)
- (b) Name one crop that is trained using above methods (1mk)
- (c) Give two reasons for carrying out the practice above (2mks)

18. A farmer is to apply a compound fertilizer 20:30:10 on a vegetable plot measuring 5 M long 5 wide, at the rate of 200kg per hectare.
Calculate the amount of fertilizer the farmer would require for the plot. (Show your work (3Marks)

Answer any TWO questions.

19. (a) Explain cultural methods used in controlling crop diseases (10mks)
- (b) Describe the practices that a farmer should carry out to ensure uniform germination of seeds (10mks)
20. a) Explain the factors that influence the type of irrigation to use on the farm (10mks)
- b) Explain how various farming practices would help to conserve soil in a farm. (10Marks)
21. a) Explain five factors that influence crop rotation. (10 Marks)
- b) Describe ten cultural measures of controlling crop pests (10marks)