

**ALLIANCE HIGH SCHOOL
FORM 3 AGRICULTURE
END OF YEAR 2015**

NAME _____ Class _____ ADM NO. _____

1. State **three** properties of soil that are influenced by its texture (1 ½ mks)

2. List **two** features of plastic pipes a farmer should consider before buying. (1 mark)

3. Give **two** advantages of tissue culture. (1 marks)

4. Suppose a farmer has to apply 30kg of $P_2 O_5$ per hectare and he had the fertilizer labelled 21:15:60 at this disposal, calculate the amount of $P_2 O_5$ he will require for two hectare of land (2mks)

5. Give the element whose deficiency in plants is plants is characterised by the following
- (a) Interveinal chlorosis of the leaves (½ mk)
 - (i) Blossom end rot in tomatoes (1/2mk)
 - (ii) Scorched edges of a leaf (½ mk)
6. State **four** characteristics of intensive farming (2mks)

7. Define the following terms. (2mks)
a) Intergrated pest Management

b) Economic injury level

8. State two importance of flooding water in the field of growing rice (1mk)

9. List four reasons for using certified planting materials (2mks)

10. State four aims of land settlement programmes in Kenya (2mks)

11. State two causes of forking in carrots (1mk)

12. State four disadvantages of using herbicides (2mks)

13. Name **two** common diseases of cabbages (1mk)

14. State **two** methods used in frame formation in tea production (2mks)

15. State **four** factors that influence mass wasting as a type of soil movement (2mks)

16. State **two** importances of living organisms in soil (1mk)

17. State **four** ways in which trees help in land reclamation (2mks)

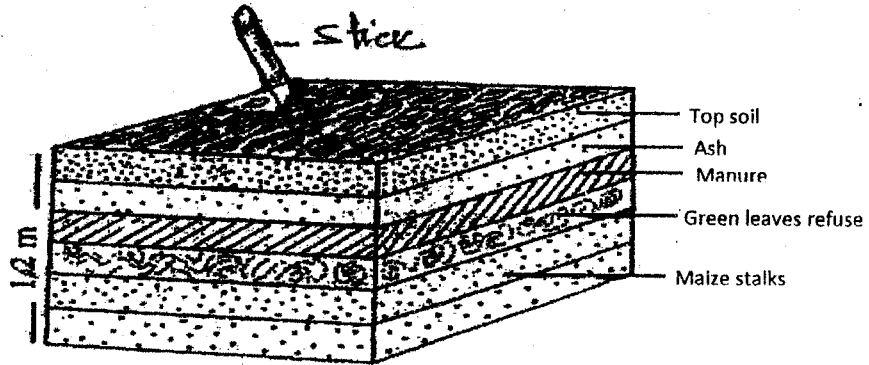
18. State **four** factors that determine crop population in maize field (2mks)

19. State **four** stages of Gulley formation. (4mks)

SECTION B (20 MKS)

Answer all questions in this section in the spaces provided

20. The diagram below shows preparation of organic manure.



(a) Which type of organic manure is being prepared above? (1 mark)

(b) Give the importance of inclusion of the following layers. (4 marks)

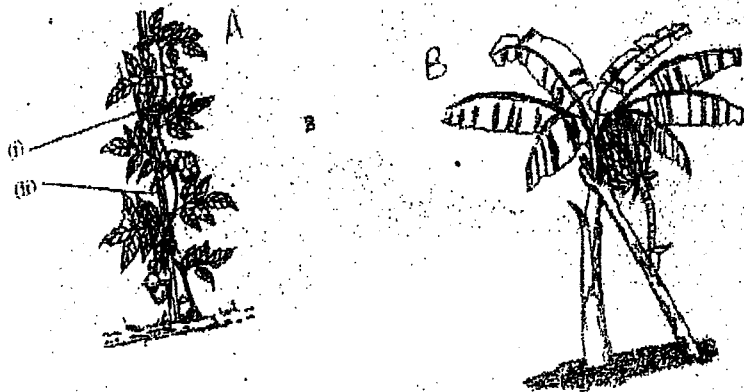
(i) Ash

(ii) Topsoil

(iii) Manure

(iv) A stick

21. Use the illustration below to answer the questions that follow



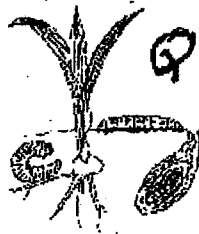
(a) Identify the practice illustrated in diagram A and B

(2mks)

(b) Give three reasons for carrying out the practice illustrated by A

(3mks)

22. The diagrams P, Q, R represents some crop pests, study them



(a) Identify the pests P and Q

(1mark)

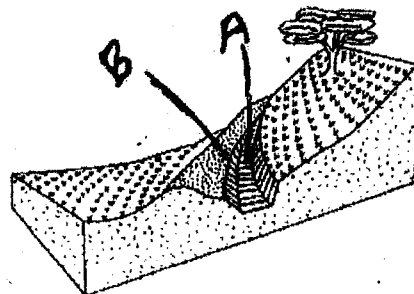
(b) Give the damage caused by pests P in maize production

(1mk)

(c) State two control measures of pests R

(2mks)

23. The illustration below shows a certain structure used in soil and water conservation, use it to answer the questions below

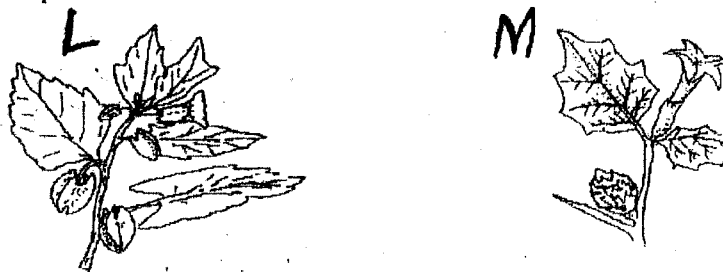


(a) Identify the structure (1mk)

(b) Name the parts of the structure labelled A and B (1mk)

(c) State other two physical structural methods used in soil and water conservation (2mks)

24. The diagram below illustrates some weeds. Study them and answer the questions that follows



(a) Identify the weeds (1mk)

(b) On the basis of plant morphology, classify the weed labelled L (1mk)

(c) Give two harmful effects of the weed labelled M (2mks)

SECTION C (40marks)

Answer any two questions in the spaces provided

25. a) Describe cultural measures of weed control. (5 mks)

(b) Describe factors that should be considered when deciding on the crop to grow (10mks)

(c) Outline five advantages of using seeds for crop propagation (5mks)

26 (a) State four disadvantages that a farmer experience when they use synthetic type of mulches(4mks)

(b) Explain the different physical methods used in crop pest control (16mks)

27 (a) Outline the role of phosphorous in plants (5mks)

(b) Describe the policies used by the government to regulate the amount of imported agricultural good in Kenya (5mks)

(c) Describe uses of farm records in the farm (10mks)