

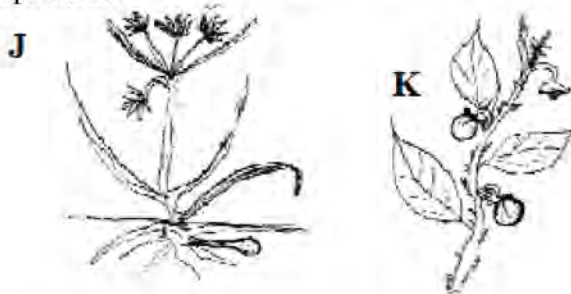
GATANGA SUB-COUNTY JOINT EXAMINATION
443/1
AGRICULTURE
PAPER 1

1. Name **four** conditions of land which may make it necessary to carry out reclamation practices. (2mks)
2. List **three** physical agents of weathering in soil formation proccers. (1½mks)
3. State **four** factors that are considered when classfying crop pests (2mks)
4. Name **three** examples of leguminous fodder. (1½mks)
5. Give **two** examples for each of the following types of cost incurred in dairy production . (2mks)
 - (a) Variable cost
 - (b) Fixed cost
6. Give **three** factors to consider when choosing the type of labour to use in the farm. (1½mks)
7. State **four** functions of Agriculture Society of Kenya (A.S.K.). (2mks)
8. State **three** methods of harvesting trees in Agroforestry. (1½mks)
9. Name the part harvested for each of the following. (1½mks)
 - (a) Tomatoes.....
 - (b) Coffee.....
 - (c) Irish Potatoes
10. Name **four** records that should be kept by a pig farmer. (2mks)
11. Give **four** ways of harvesting water in the farm. (2mks)
12. Give **four** factors that influence the number of secondary cultivation in seedbed preparation. (2mks)
13. Differentiate between pomoculture and Olericulture. (1mk)
 - (a) Pomoculture
 - (b) Olericulture
14. State **four** characteristics of plants used as green manure. (2mks)
15. List **four** roles of calcium in plants . (2mks)
16. Give **two** ways of hardening off vegetables seedlings in a nursery bed. (1mk)
17. Mention **three** ways of crop protection as field management practice . (1½mks)
18. Define the term Economic injury level as used in pest control . (1mk)

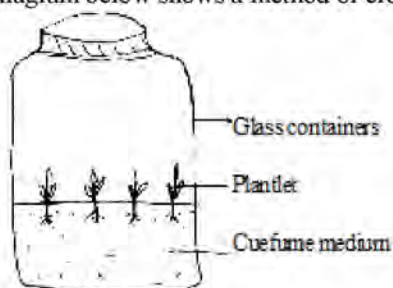
SECTION B (20 MKS)

Answer all questions in this section in the spaces provided

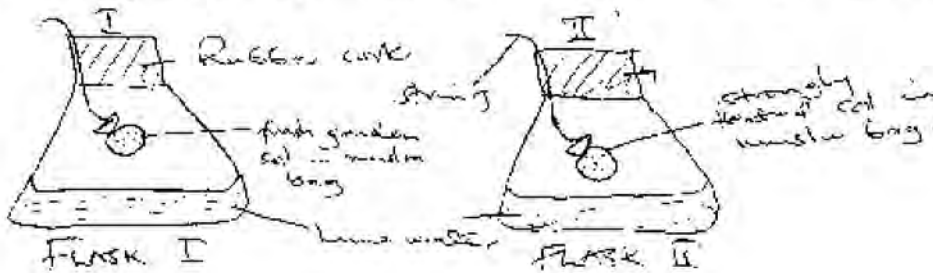
19. Below are crops weeds



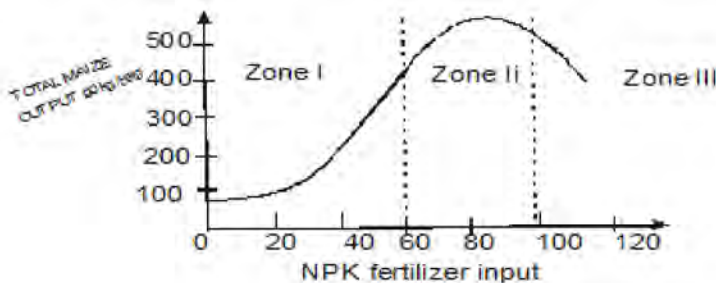
- (i) Identify the weeds labelled . (2mks)
 - (ii) Give **one** reason why weed J is difficult to control. (1mk)
 - (iii) Classify the above weeds based on plant morphology . (2mks)
20. The diagram below shows a method of crop propagation . Study it and answer the questions that follows :-



- (a) Identify the method of propagation done. (1mk)
 (b) Name **one** crop that can be propagated by above method. (1mk)
 (c) State **three** disadvantages of the above method in crop propagation. (3mks)
21. Below is a set up of an experiment to study an aspect of soil. The set up was left undisturbed for 5 hours.



- (a) What was the aim of the experiment? (1mk)
 (b) State the observation made in each flask I and II. (2mks)
 (c) Give a reason for each of your answer in (b). Above (2mks)
22. The graph below is an illustration of a law in agricultural economics.



- (a) Which is the rational zone of production? (1mk)
 (b) Give the reason for your answer in (a) above (1mk)
 (i) Explain what would happen in each of the three zones marked I, II & III in relation to fertilizer input and maize output. (3mks)

SECTION C (40MKS)

Answer any two questions in this section

23. (a) Describe the properties of nitrogenous fertilizer. (6mks)
 (b) Describe cultural methods of controlling soil erosion. (8mks)
 (c) Describe the problems of marketing Agricultural produce. (6mks)
24. (a) Describe production of dry beans under the following subheadings. (3mks)
 (i) Land preparation (3mks)
 (ii) Planting (3mks)
 (iii) Disease control (2mks)
 (iv) Harvesting (2mks)
- (b) Outline **five** advantages of land consolidation in Kenya. (5mks)
 (c) Explain **five** physical measures used to control pests in the farm (5mks)
25. The following is accounts information prepared by Undugu farm in 2016.

Purchases

Feeds	-	2,000/=
Seeds	-	1,000/=
Fertilizer	-	1,300/=
Fuel	-	1,500/=
Tools & Equipment	-	10,000/=

During the year, the farm made the following sales

Wheat - 40,000

Cabbage - 35,000

Milk - 10,000

The farm also expects Ksh. 6,000 from a neighbouring farm for firewood delivery.