

NAME.....

ADMNO.....

## WANGU WARD JOINT EXAMS

443/1

AGRICULTURE PAPER 1

TIME : 2HRS

### INSTRUCTIONS

- a) This paper consists of three sections : A&B and C
- b) Answer all the questions in section A & B
- c) Answer any two questions in section C
- d) All answers should be written in the spaces provided.

**SECTION A (30MKS)**

**ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.**

1. Name the part of planted for each of the following crops.[1 ½]
  - a) Sisal
  - b) Irish potatoes
  - c) Pyrethrum
2. State four basic factors that influence crop productivity positively [2mks]
3. State four disadvantages of using organic manure in vegetable production [2mks]
4. State two reasons for earthing up in maize production {1mk}
5. State four advantages of manure [2MKS]

6. State two disadvantages of shifting cultivation [1mk]

7. State four reasons for sub-soiling in a maize field [2mks]

8. List four post-harvest practices carried out in tomatoes [2mks]

9. Give four disadvantages of communal land tenure system [2mks]

10. Name any three insects with biting and chewing mouth parts [1 ½]

11. State four factors affecting the efficiency of pesticides [2mks]

12. List two tertiary operation carried out during land preparation [1mk]

13. Name two processes through which carbon is returned to the atmospheres in the carbon cycle [1mk]

14. a) state two objectives of land redistribution in Kenya [1mk]

b) State four functions of a manager on the farm [2mks]

15. Name two pests which attack stems of crops [1mk]

16. Name four financial documents that can be kept in an agricultural farm [2mks]

17. Mention four ways of improving land as a factor of production [2mks]

18. Name two methods of harvesting agroforestry trees [1mk]

**SECTION B (20MKS)**

Answer all the questions in this section in the spaces provided

19 study the diagram below and answer the questions that follow



a) Identify the cultivars labeled G and F [2mks]

G

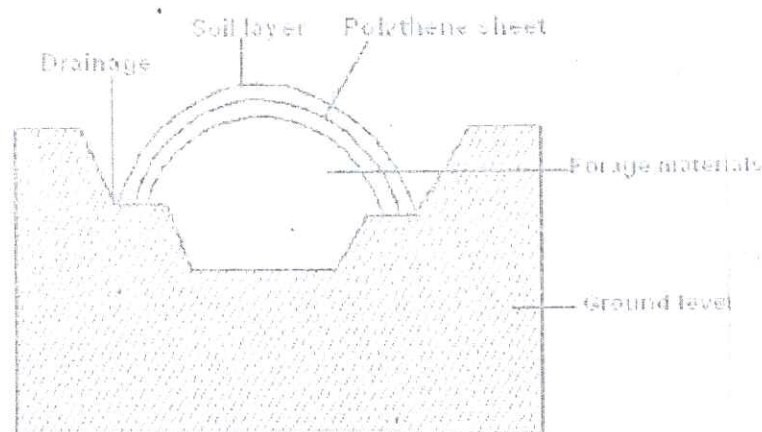
F

b) State the advantage of cultivar H over F [1mk]

c) Name the major species of birds that are responsible for most losses experienced by farmers of the crop represented by the cultivars [1mk]

d) Name one disease that attack the grains of the crop [1mk]

20. The diagram below shows a method of forage preservation



i) Identify the structure illustrated [1mk]

ii) State the form in which forage is conserved as illustrated above [1mk]

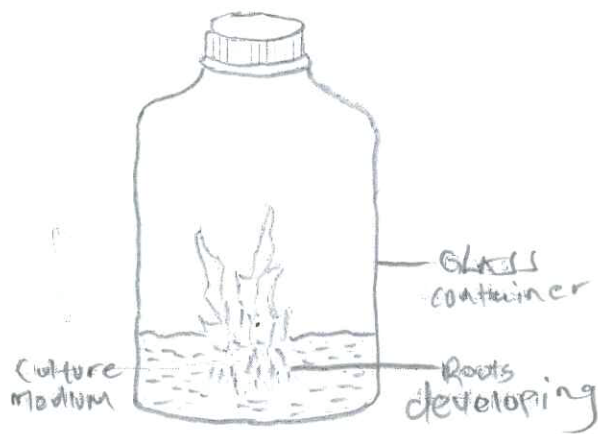
iii) Give the role of the following in the structure above [2mks]

a) Polythene sheet

b) Drainage

iii) What is the reason for compacting the materials [1mk]

21. The diagram below illustrates a method of crop propagation

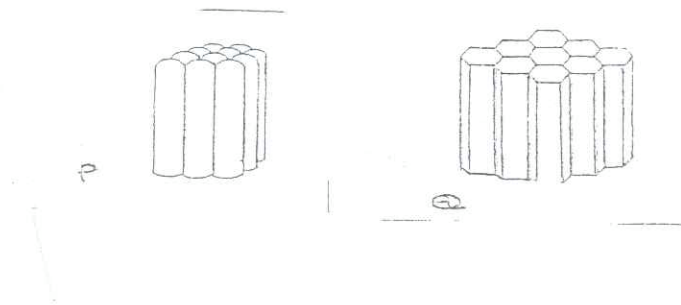


a) Identify the method of propagation [1mk]

b) Name one crop propagated through the method [1mk]

c) State three importance of the method above [3mks]

22. Below are two types of soil structures P and Q



a) Identify the types of soil structures

P

Q

b) State where the above soil structures are likely to be found [1mk]

d) outline three main ways by which soil structure influence crop production [3mks]



### SECTION C ( 40MKS)

Answer any two questions from this section in the spaces provided after question 25

23. a) describe four agricultural support services available to maize farmers in Kenya [8mks]

b) i) what is farm budgeting

ii) Name two types of farm budgets

c) A farmer intends to change his enterprise from livestock production to crop production. The cost incurred is as follows

The cost of livestock production include

- Cost of cow ksh.15,000
- Fencing kshs.3,000
- Disease control kshs.5,000
- Spraying costs kshs.500

The cost of crop production includes;

- Land preparation ksh.500
- Seeds ksh.600
- Planting ksh.800
- Fertilizers ksh.1,500
- Disease/ pest control ksh.1,200
- Harvesting ksh.1,100

The revenue from milk sale is ksh.25,000 and sale of calf ksh.4,000 while the revenue he gets from sale of crops is ksh.23,000. Draw up a partial budget and indicate whether the change is worthwhile or not. [9mks]

24 a) State the various practices carried out in the field to help control diseases [12mks]

b) Describe eight environmental conditions that may lead to low crop yields [8mks]

25 a) describe five methods a farmer can use in harvesting water in the farm [5mks]

a) Explain seven ways by which soil loses fertility [7mks]

b) State the uses of water in the farm [8mks]