

**NAME:** .....**ADM. NO:** .....**CLASS:**...

**AGRICULTURE PAPER 1**  
**END YEAR EXAM – 2019 FORM THREE**

**INSTRUCTIONS:**

**Answer ALL Questions in section A, B and any TWO Questions in section C.**

**SECTION A: (30 MARKS)**

1. State four characteristics of large scale farming system. (2mks)
  
2. Outline four factors that can make shifting cultivation practicable. (2mks)
  
3. State two effects of high temperature on crop production. (1mk)
  
4. State two effects of sub-soiling in land preparation. (1mk)
  
5. Differentiate between soil texture and soil structure. (2mks)
  
6. State two reasons why green manure is not commonly used by many farmers. (1mk)
  
7. Enumerate four types of farm records kept by farmers. (2mks)
  
8. Outline two importance of a title deed in land tenure system. (1mk)

9. State reasons why it is difficult to control the following weeds. (4mks)
- i) Oxalis –
  - ii) Couch grass –
  - iii) Black jack –
  - iv) Nut grass –
10. What is the meaning of the following terms as used in pest control?
- i) Economic injury level – (1mk)
  - ii) Integrated pest management – (1mk)
11. State two varieties of beans growth in Kenya. (2mks)
12. List two advantages of a grass-legume pasture over pure stand grass pasture. (1mk)
13. Why is too much air undesirable in silage making? (1mk)
14. State four reasons for staking of tomatoes. (2mk)
15. Outline two methods of breaking seed dormancy. (1mk)
16. List two demerits of using seeds as planting materials. (1mk)

17. Give two importance of raising seedlings in polythene sleeves compared to direct establishment on the ground. (1mk)

18. (a) State three post harvesting practices carried out in crop production. (3mks)

(b) List two limitations of using a traditional granary in crop storage. (2mks)

**SECTION B: (20MARKS)**

**Answer ALL Questions in this section.**

19. Below are diagrams of common weeds found in the farm. Use them to answer questions that follow.

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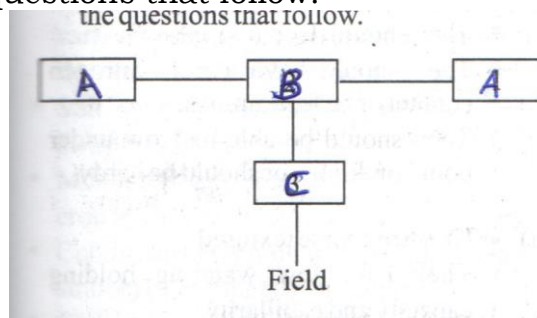


i) Identify weeds Q, R and S. (3mks)

ii) Mention one harmful effect of weed Q and R. (1mk)

iii) Give a reason why weed S is referred to as a parasitic weed. (1mk)

20. The diagram below is an illustration of turning a certain type of manure. Use it to answer questions that follow.



a) Name the type of manure that is turned using the above method. (1mk)

b) By use of arrows, show how the manure is turned. (1mk)

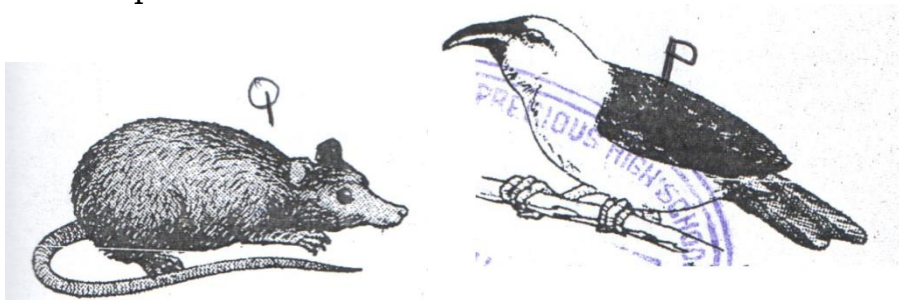
c) What is the significance of adding the following during the preparation of compost manure?

i) Adding well rotten manure. (1mk)

ii) Adding garden soil. (1mk)

iii) Adding ash. (1mk)

21. Below are representations of certain pests that attack crops. Use them to answer questions that follow.



- i) Identify pests P and Q. (2mks)
- ii) State two effects of pest Q in crop production. (2mks)
- iii) Highlight three methods of controlling pest P. (3mks)
- iv) At what stage do pest P attack crops? (1mk)

**SECTION C: (40 MARKS)**

**Answer any TWO Questions.**

22. (a) Explain five effects of soil erosion. (10mks)  
(b) Explain five methods used to control crop diseases. (10mks)
23. Describe production of maize under the following:
- a) Ecological requirements. (3mks)
  - b) Seed bed preparation. (4mks)
  - c) Planting. (5mks)
  - d) Field management practices. (5mks)
  - e) Harvesting. (3mks)
24. (a) Describe ten (10) nursery management practices that are carried out after seed germination. (10mks)  
(b) Explain five factors to be considered when designing a crop rotational programme. (10mks)