

# **Agriculture Paper 1 - 2022 K.C.SE Prediction Set 1**

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Section A (30 MARKS)

Answer ALL questions in this section.

1. Give four methods of applying fertilizers to crops. (2 marks)
2. State four beneficial biotic factors that influence agriculture. (2 marks)
3. Give four branches of Agriculture. (2 marks)
4. State four advantages of co-operative land tenure system. (2 marks)
5. State four benefits of organic mulch in crop production. (2 marks)
6. State four conditions under which shifting cultivation is practiced. (2 marks)
7. Give four effects of mass wasting. (2 marks)
8. Give four factors that affect the rooting of cuttings. (2 marks)
9. Name four details that are included in a farm marketing record. (2 marks)
10. Give four examples of product-product relationships in the management of agricultural enterprises. (2 marks)
11. State three entries that are made in a journal. (1½ marks)
12. Give two reasons for cutting back pyrethrum. (1 mark)
13. State three parameters used to indicate national development. (1½ mark)
14. State four symptoms of viral diseases in crops. (2 marks)

15. Give four reasons for draining land as part of land reclamation. (2 marks)

16. State two reasons for topping a pasture. (1 mark)

17. State two advantages of metal pipes over plastic pipes in piping water in the farm. (1 mark)

**Section B (30 MARKS)**

**Answer ALL questions in this section.**

18. Study the following weeds and answer questions that follow.

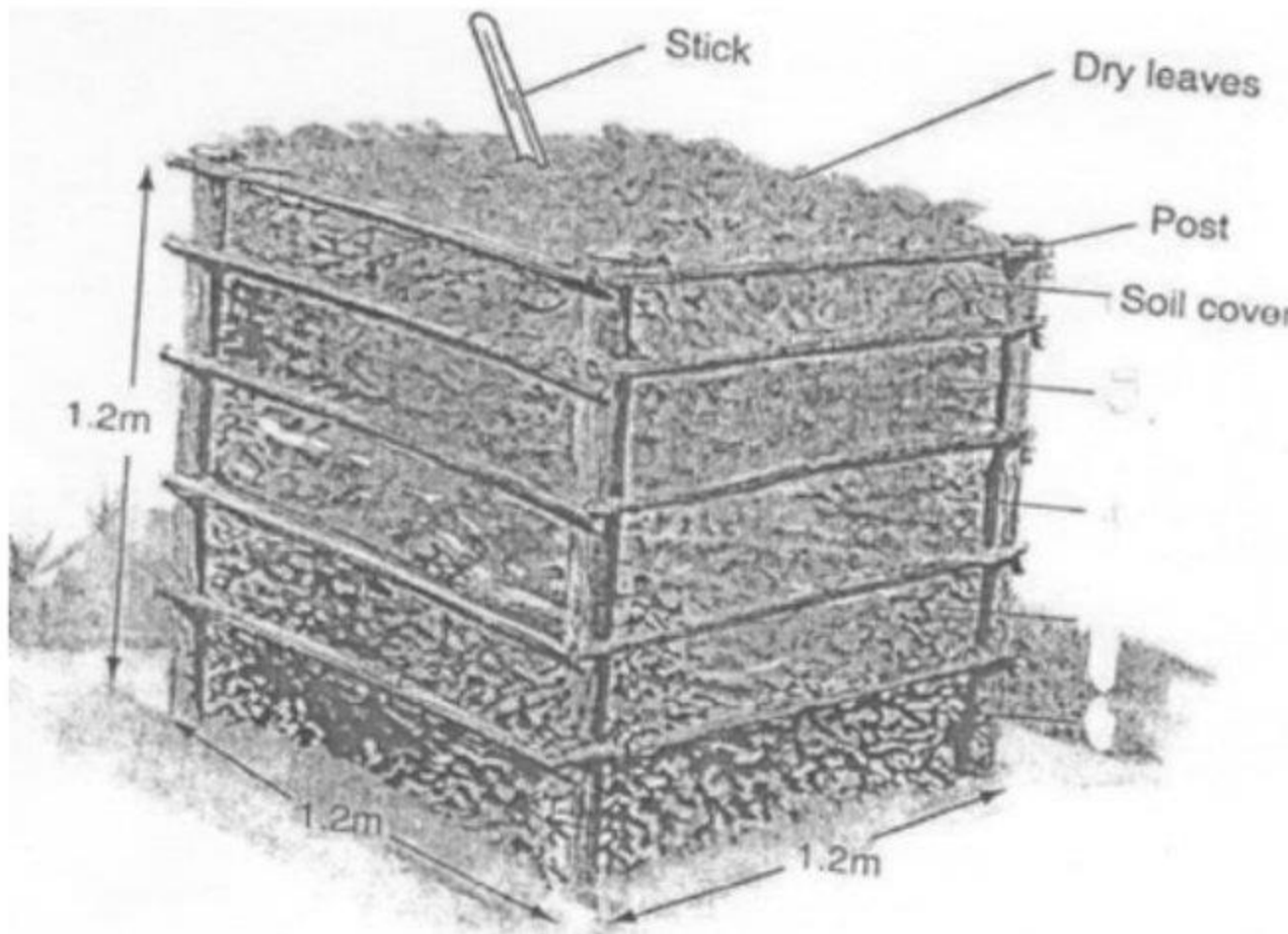
a. Give the identity of weeds J and K. (2 marks)

b. What makes weed K difficult to control? (1 mark)

c. Give the economic importance of weed J. (1 mark)

d. State one reason that makes weeds excellently adapted to various environments. (1 mark)

19. Study the diagram below of a method of compost making and answer the questions that follow.



a. Identify the methods of compost making. (1 mark)

b. State four factors to consider when siting the structure. (2 marks)

c. What is the function of the following materials in preparation of compost manure i. Top soil (1 mark)

ii. Wood ash (1 mark)





- a. Identify the pests in the diagram labeled A and B. (1 mark)
- b. At what stage of maize production does each pest damage the crop? (2 marks)
- c. Give one way of controlling each of the pests in the field. (2 marks)

21. The diagram below represents a vegetative material used to prepare a certain crop. Study them and answer the questions that follow.





- i. Give the name of the material illustrated above. (1 mark)
- ii. Give the name of the preparation done on the material to make it ready for planting. (1 mark)
- iii. State three advantages of carrying out the practice in (ii) above before planting. (3 marks)

### **Section C (40 MARKS)**

**Answer ANY TWO questions from this section in the spaces provided**

22. a. Describe the growing of dry bean seeds under the following subheadings. - Selection and preparation of planting materials (3 marks)

- Planting (4 marks)

- Weeding (3 marks)

b. Describe the environmental conditions that may lead to low crop yields. (10 marks)

23. a. Explain six factors considered in designing a crop rotation programme. (6 marks)

b. Explain the factors that influence the type of irrigation to be used in a farm. (8 marks)

c. Explain six post-harvest practices carried out on production of maize. (6 marks)

24. a. Explain five advantages of budgeting in farming. (10 marks)

b. Explain five various types of risks and uncertainties. (5 marks)

c. Describe the importance of pruning perennial crops. (5 marks)