

MAKUENI COUNTY CLUSTER PREPARATORY EXAMINATION 2016

**443/1
AGRICULTURE
PAPER 1
JULY / AUGUST 2016
TIME: 2 HOURS**

SECTION A (30 MARKS)

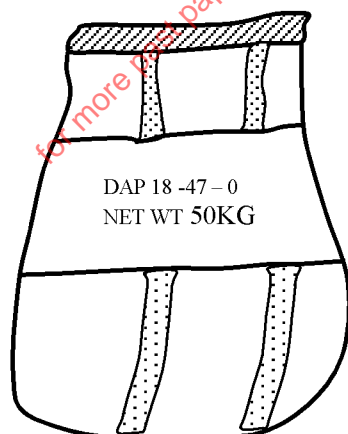
Answer all the questions in this section in the spaces provided.

1. Give four benefits of practicing farming (2 marks)
2. State three factors that cause most farmers to adopt small scale farming in Kenya (1½ marks)
3. State three effects of low temperature in crop production (1½ marks)
4. Give four differences between soil formed in situ and decomposition (2 marks)
5. State the form in which the following elements are taken up by plants from the soil,
 - a) Boron (½ marks)
 - b) Calcium (½ marks)
6. Give two disadvantages of using plastic pipes in conveying water in the farm (1 marks)
7. a) Name two agricultural lime materials that may be used in the farm. (1mark)
- b) State four reasons for liming soils (2 marks)
8. Give three advantages of cultivation as a means of weed control. (1½ marks)
9. a) What is land fragmentation? (½ marks)
- b) State three causes of land fragmentation (1½ mark)
10. Name two joint products in crop production (1 mark)
11. a) What is green manure in crop production? (½ mark)
- b) State four characteristics of green manure crops (2 marks)
12. Name four methods of harvesting water in the farm. (2 marks)
13. Differentiate between Gross Domestic product (GDP) and Gross National Product (GNP) (2marks)
14. The price of millet in a market changes from Sh. 8.00 to Sh. 12.00 per kilogram resulting in a change of supply from 400kg to 600 kg. Calculate the elasticity of supply of the millet in that market. Show your working. (2marks)
15. Give two activities carried out during hardening off cabbage seedlings. (1 mark)
16. a) What is topping in pasture management? (½ marks)
- b) State two ways of increasing the carrying capacity of pastures (1mark)
17. Give two reasons why a tomato crop should be pruned (1 mark)
18. State three methods of weed control in a Napier grass field (1½ marks)

SECTION B (20 MARKS)

Answer all the questions in the spaces provided.

19. Study the illustration shown below and answer the questions that follow



- a) What is the fertilizer grade of the above fertilizer material? (1 mark)
 - b) Calculate the amount of filler material in the above fertilizer material (show your working) (2 marks)
 - c) State two disadvantages of applying the above fertilizer in crop production (2 marks)
20. A farmer has four plots L1, L2, L3 and L4 as shown in the table below. Each plot has an agronomic problem as indicated.

L1	L2	L3	L4
Infected with witch weed (strigaspp)	Infected with bacterial wilt	Deficient in Nitrogen	Prone to soil erosion

- a) Plan a crop rotation programme for the first year in the four plots using the following crops maize, Irish potatoes, Rhodes

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