

GUCHA SOUTH EVALUATION TEST (GSET)

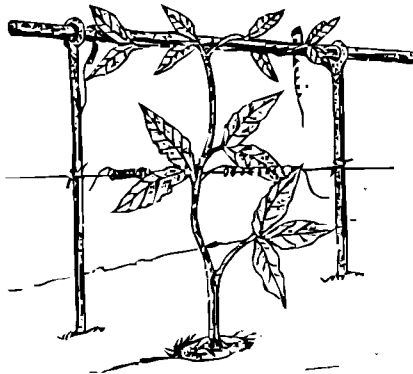
443/1

AGRICULTURE**PAPER 1****SECTION A (30 marks)**Answer ALL questions in this section on the spaces provided.

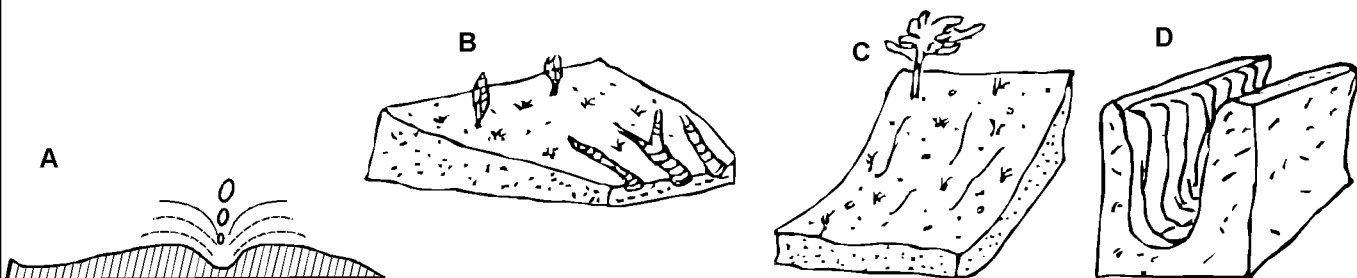
1. Mention four practices that should be carried out to maintain grass pasture. (2 marks)
2. State two benefits of conserving forage crops. (2 marks)
3. Mention four management practices that are carried out on agro forestry trees from transplanting to maturity. (2 marks)
4. Give four possible causes of seed dormancy. (2 marks)
5. Give four farming practices that may help in achieving minimum tillage. (2 marks)
6. State four advantages of adding organic manure to sandy soil. (2 marks)
7. Give four functions of young farmers clubs in Kenyan secondary schools. (2 marks)
8. List four reasons for treating water for use on the farm. (2 marks)
9. State five characteristics of a large scale farming system. (2½ marks)
10. State four ways in which burning of vegetation may lead to loss of soil fertility. (2 marks)
11. Give two forms in which nitrogen is absorbed from the soil by plants. (2 marks)
12. Why is it necessary to allow freshly cut sorghum (Columbus grass) to wilt before feeding it to livestock. (1 mark)
13. Give three reasons for growing crops under optimum temperature conditions. (1½ marks)
14. Give two ways in which cover crops help to conserve water in the soil. (1 mark)
15. Give a reason for carrying out each of the following management practices on a tree nursery.
 - i) Pricking out. (1 mark)
 - ii) Root trimming. (1 mark)
16. Give two conditions in Agricultural production under which opportunity cost is zero. (1 mark)

SECTION B (20 marks)Answer ALL questions in the spaces provided.

17. The diagram below shows a practice in crop production.



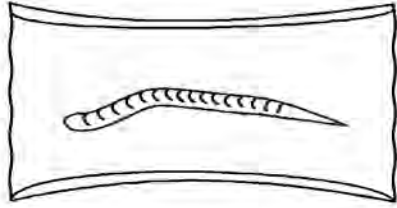
- a)
 - i) Give the identity of the field management practice illustrated above. (½ mark)
 - ii) Give two reasons for carrying out the above field management practise. (2 marks)
 - b) A plot measuring 4m × 3m was prepared for planting cabbages at a spacing of 60cm × 60cm. Calculate the plant population in the plot show your working. (1½ marks)
18. a) What is silage? (1 mark)
 - b) Outline any 5 qualities of good silage. (5 marks)
19. The illustration below indicates types of soil erosion that take place on cultivated farm land. Study and answer the questions that follow.



Identify the type of erosion represented by each of the illustrations above.

(2 marks)

20. The diagram below shows a maize stalk infested by a certain pest. Study it and answer questions that follow.



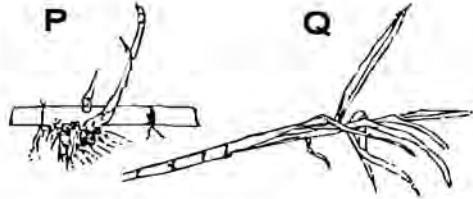
a) Identify the pest

(1 mark)

b) Give two damages caused to crops by the above pest.

(2 marks)

21. Identify the illustration P and Q which are materials used in propagation of sugarcane.



P(½ mark) Q

(½ mark)

b) Giving reasons which of the above is more suitable as a planting material in sugarcane.

(2 marks)

c) Outline two precaution taken when harvesting sugarcane.

(2 marks)

SECTION C : (40 marks)

Answer any TWO questions in this section in the spaces provided.

22. Describe the establishment of kales under the following sub-heading.

a) Nursery preparation

(4 marks)

b) Establishment in the nursery.

(3 marks)

c) Management of seedling in the nursery.

(5 marks)

d) Transplanting of seedling.

(8 marks)

23. Study the information provided carefully and use it to prepare a profit and loss account for Mr. Kemboi's farm for the year ending 2014. His purchases and expenses were as follows.

Goat	4,000
Poultry	15,000
Diary meal	25,000
Pasture seeds	50,000
Transportation of farm produces	15,000
Casual worker	12,000
Ox-plough	10,000
Opening valuation	150,000
His sales and receipts	
Mohair	75,000
Rabbits	36,000
Pigs	70,000
Ground nuts	100,000
Orange	20,000
Eggs	15,000
Closing valuation	200,000

a) Prepare a profit and loss account for Mr. Kemboi's farm as at 31-12-2014.

(7 marks)

b) From the calculations in (a) above, state whether Mr. Kemboi made a profit or a loss.

(1 mark)

c) State the use of each of the following documents.

i) Cash receipt

ii) Purchase order

iii) Delivery note

(3 marks)

d) Name two types of inventories in farm accounts.

(2 marks)

e) Explain how farmers overcome risks and uncertainties.

(7 marks)

24. a) Describe five factors considered before choosing the type of irrigation system to use in the farm.

b) Describe the importance of farm records in the farm.

(10 marks)