

Agriculture Paper 1 Question Paper

SECTION A (40 Marks)1. State three characteristics of

- State three characteristics of shifting cultivation.
- 2. State three reasons why Agriculture is important in Kenya.
- 3. a) State three benefits of a good soil structure. (1½ marks)
 - b) State two causes of hardpan in a crop field. (1 mark)
- 4. State three reasons for primary cultivation.
- State three characteristics of crops used for green manure. 5.
- 6. State two conditions under which opportunity cost is zero.
- 7. State two reasons why farmers should be advised to plant their crops early.
- 8. Distinguish between the following terms.

i. Undersowing and oversowing. (1 mark)
ii. Coppicing and capping
iii. Earthing up and ridging. (1 mark)
iv. Thinning and gapping. (1 mark)

- 9. State two reasons for inoculating legume seeds before planting.
- 10. Give three symptoms of nitrogen deficiency in a growing maize crop.
- 11. State two reasons that may determine the depth of ploughing during seedbed preparation.
- 12. a) Give the vegetative materials that should be used in establishment of the following crops. $(1\frac{1}{2}$ marks)

i. Bananas	
. ii. Sisal	
iii. Pyrethrum	
b) Give three advantages of using seeds in propagating crops. ($1lac{1}{2}$ marks)	

- 13. State three ways in which mulching helps in soil and water conservation.
- 14. State three plant morphological features likely to affect selectivity and effectiveness of herbicide.
- 15. a) State three reasons why some farmers may prefer to use herbicides to contro I weeds but not other methods of weed control. (1½ marks)



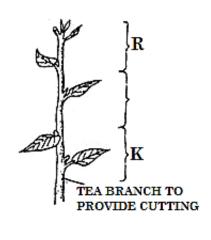
Agriculture Paper 1 Question Paper

o) Name two insect pests with bitin	ng and chewing mouth parts. (1 mark)

- 16. State two methods of draining a water logged land to make it suitable for crop farming.
- 17. Name two varieties of beans grown for dry seeds.

SECTION B (20 Marks)18. Study the illustrations below and answer the questions that follow.



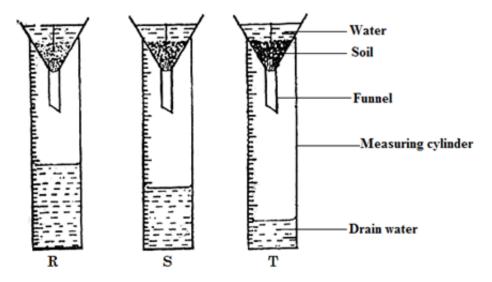


a) Name the vegetative propagation materials on illustration X1, labelled 1,2 and 3.(3 marks)
L
2
3
o) The vegetative propagation materials labelled X2 shows the parts that should not be used for propagation.
. State a reason why the section labelled R is not suitable for propagation.(1 mark)
i. State a reason why the section labelled K should not be used for propagation.(1 mark)
2) State four practices that should be carried out in the nursery in order to raise healthy seedlings. 2 marks)
d) Name four factors that are likely to affect rooting of cuttings. (2 marks)



Agriculture Paper 1 Question Paper

19. Study the illustrations below and answer the questions that follow.



a)	Identify	the	aim	of the	experiment	shown	by the	illustrations	above.	(1	mark
----	----------	-----	-----	--------	------------	-------	--------	---------------	--------	----	------

b) Identify the type of soil in experiment labelled R and S and give a reasons for your answer. i.R.....(1 mark)

Reason

.....

ii. S......(1 mark)

Reason

- c) State two ways in which soil illustrated by figure T can be made suitable for farming.(1 mark)
- d) Which of the three soils can easily lose water when exposed to dry conditions. (1 mark)
- 20. The illustrations below shows a crop pest and disease.





Agriculture Paper 1 Question Paper





a) Identify

i. The g	roup of field	pest under	which the	pest illustrated	Q bel	long. (1	mark)
----------	---------------	------------	-----------	------------------	-------	----------	-------

- ii. State two damages likely to be caused by pest Q in the field. (1 mark)
- iii. Give two ways of controlling pest Q. (1 mark)

b) Identify the disease in the illustration

. i. Labelled P. (1 mark)

ii. Give the cause of the disease illustrated by P. (1 mark)

iii. State two control measures for the disease. (1 mark)

SECTION C (30 Marks) 21. a) What is crop rotation? (1 mark)

- - b) Explain why crop rotation is important in crop farming. (7 marks)
 - c) Describe the effects of erosion on crop farming. (6 marks)
 - d) Describe the benefits of weeds to a farmer. (6 marks)
- 22. a) Describe the production of Guatemala grass (Trypasacuun laxuun) under the following sub-heading.
 - i. Land preparation. (3 marks)



Agriculture Paper 1 Question Paper

- ii. Planting (3 marks)
- iii. Defoliation (2 marks)
- iv. Utilization (1 mark)
- b) Describe the procedure followed in harvesting pyrethrum flowers. (5 marks) c) Describe carrot production under the following sub-heading. i. Land preparation. (3 marks)
- ii. Field management practices. (3 marks)
- 23. a) Describe the ways through which soil can lose its fertility. (8 marks)
 - b) Explain the factors considered in choosing the correct seeds for planting crops. (8 marks)
 - c) i)What do you understand by land tenancy? (1 mark)
 - ii) Describe the disadvantages of land tenancy? (4 marks)