

SECTION A (30 MARKS)

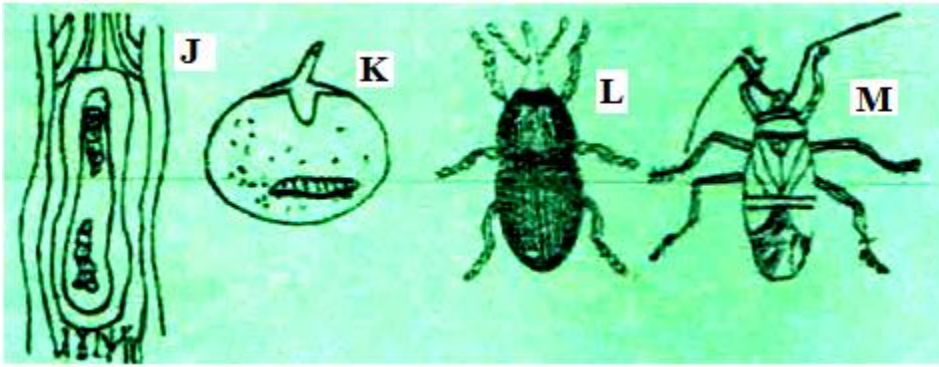
Answer all the questions in this section in spaces provided

1. (a) What is minimum tillage? (1mark)
(b) Give four farming practices that may help in achieving minimum tillage (2marks)
2. State two ways in which a farmer may increase water infiltrate in the soil. (2marks)
3. Give any four biotic factors that influence agriculture negatively (2marks)
4. State three ways of conveying water into the farm (1½ marks)
5. Give two importance of chitting in potato production (1mark)
6. Outline three factors which may influence soil erosion (1½ marks)
7. Mention any four post- harvest practices carried out on crops (2marks)
8. State two deficiency symptoms of sulphur (1mark)
9. Give four qualities of a mother plant which should be considered when selecting vegetative material for propagation. (2marks)
10. Explain the following terms as used in pasture establishment
a) Seed inoculation (1mark)
b) Over sowing (1mark)
11. A farmer prepared a piece of land measuring 60m x 90m to grow a crop a sukuma wiki, at a spacing of 60cm x 60cm. Calculate the plant population. Show your working (2marks)
12. Give 3 reasons why a landlord may not be in a position to use his land. (1½ marks)
13. Outline two ways in which the level of education and technology influence the efficiency of agricultural production (1mark)
14. State four economic importance of weeds (2marks)
15. Differentiate between soil cap and hard pan (1mark)
16. Mention two importance of parent material in soil profile (1mark)
17. Give two possible causes of swellings on the roots of been plants (1mark)
18. Mention four ways of modifying soil temperature in crop production (2marks)
. (a) State two ways of increasing carrying capacity of pasture (1mark)
(b) List two reasons why too much air in the silo is undesirable in the process of making silage
State two advantages of tissue culture in crop production (1mark)
19. List two ways in which herbicides kill weeds (1mark)

SECTION B (20 MARKS)

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

20. Examine carefully the diagram J,K,L and M of crop pests and answer the questions that follow.



i) Identify the pests J,K, L and M (2marks)

J.....

K.....

L.....

M.....

ii) Nam a crop attacked by pests J, K and M (1½ marks)

J.....

K.....

M.....

iii) State one cultural method of controlling pest J (½ mark)

21. The diagram below represent some weeds found in agronomics lands



a) Identify the weeds Q, R and S (1½ marks)

Q.....

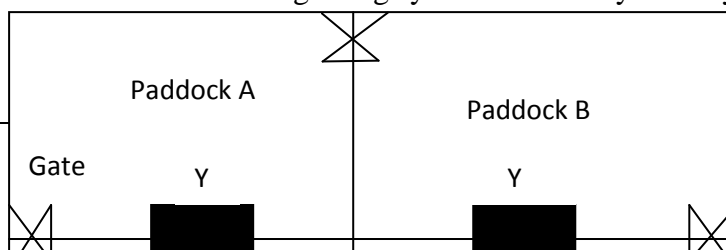
R.....

S.....

b) Give one economic importance each of weeds R and R (2marks)

c) Name one cultural method of controlling weed S (½ mark)

22. The illustration below shows one of the grazing system commonly used by farmers



a) Identify the grazing system

(1mark)

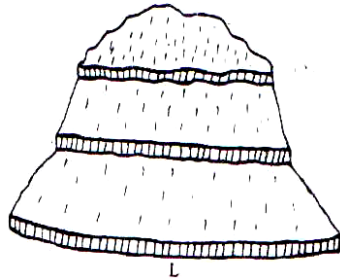
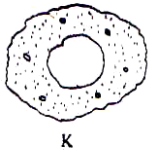
a) What is the purpose of the part labelled Y on the illustration

(1mark)

b) State two advantages of this system of grazing

(1mark)

23. Below are sketches of some type of soil profiles. Use the diagrams below to answer the questions that follow



a) Identify the structure labelled K and L

(1mark)

b) State where they are found in the soil profile

(1mark)

c) State two ways in which soil structure influences crop production

(2marks)

24. The diagram below illustrates one of the routine field practices carried out on some crops. Study the diagrams and answer the questions that follow.



a) Identify the routine field practice

(1mark)

b) State three reasons for carrying out the practice

(3marks)

Section C (40mks)

Answer any two questions in this section in the spaces provided in this booklet

24. (a) (i) On 12th July 2007 a farmer noticed that two of his daily cattle were during milking. He observed that the teats had swollen and the udder was extra big. The milk was watery. He went to the nearest Agro. Vet. Dealers and bought an anti- mastitis drug at cost of Kshs. 2,400/= which he infused through the teat canal. After three days one animal had fully recovered but one lost one quarter of the udder. Use the above information to fill the health record card below. (7marks)

Date	Disease symptoms	Disease diagnosed	Animal affected	Drug used	Treatment cost	Remark

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- a) State three importance of keeping the above record (3marks)
- b) Discuss characteristics of good farm records (10marks)
25. (a) Describe the procedure of silage making (10marks)
- (b) State six advantages of land consolidation (6marks)
- (c) Give three management practices that should be carried out to increase the survival of the seedling in the seedbed before transplanting (3marks)
26. (a) Explain the factors that influence spacing in crops (9marks)
- (b) Name four factors that determine the depth of planting (4marks)
- (c) Describe the importance of using mulch in crop production (7marks)
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