

NAME.....INDEX NO.....
SIGNATURE.....DATE.....

443/1
AGRICULTURE
PAPER 1
MARCH /APROL 2010
2 HOURS

SECTION A (30MKS)

1. Give two ways in which checkdams control soil erosion

i) _____

ii) _____

2. Outline four advantages of mixed farming

i) _____

ii) _____

iii) _____

iv) _____

3. Differentiate between mixed cropping and inter cropping

4. State two effects of pests with both piercing and sucking mouth parts on crops

i) _____

ii) _____

5. State four advantages of minimum tillage

i) _____

ii) _____

iii) _____

iv) _____

6. State four factors influencing soil formation

i) _____

ii) _____

iii) _____

iv) _____

7. Give reasons why staking in tomatoes is carried out

i) _____

ii) _____

iii) _____

iv) _____

8. Outline four methods of preventing water from pollution

i) _____

ii) _____

iii) _____

iv) _____

9. Give four ways in which cover crops help to conserve water in the soil

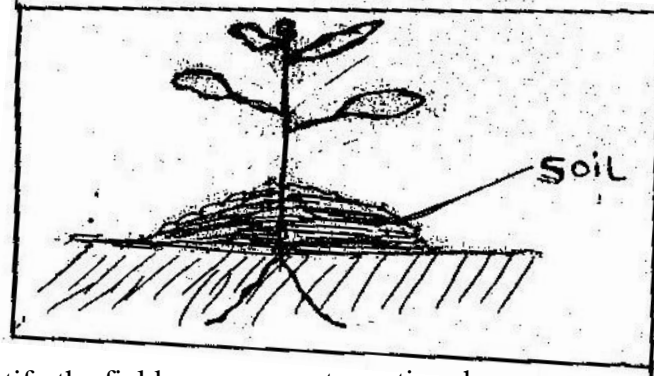
i) _____

ii) _____

iii) _____

iv) _____

10. Study the diagram below



i) Identify the field management practice shown

ii) Give four reasons for carrying out the above practice

11. State four ways in which land consolidation improves farm management

12. Difference between pinching out and copping

13. State four reasons why soil hard pan should be broken before planting crops.

14. Differentiate between trelishing and propping

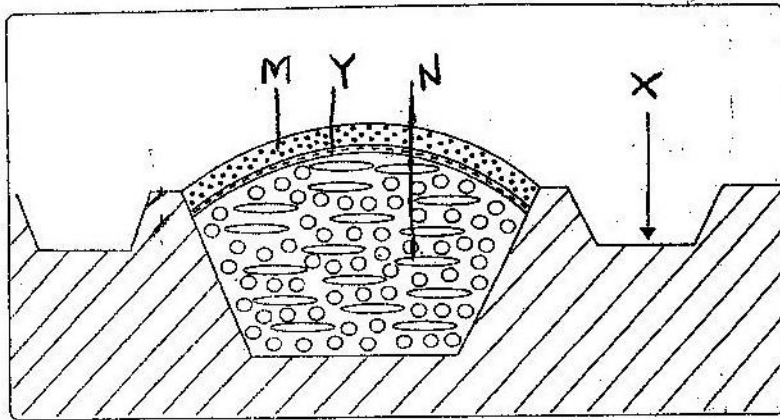
15.a) state three ways of conveying water from the source to the farm

b) State three disadvantages of sub -surface irrigation

SECTION B (20 mks)

Answer all qns in this section

16. Study the diagram below and answer the questions that follow



a) Identify the type of soil above

b) Name the parts labeled Y, N, X, M

Y _____

N _____

X _____

M _____

c) State the function of parts labeled Y

17a) State the functional difference between

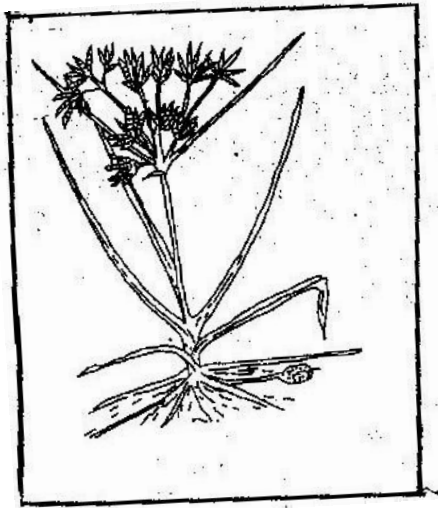
i) Sledge hammer and claw Hammer

ii) Rasp and File

b) State three safety precautions taken while using farm tools

i) _____

18. Below is a diagram of a weed



a) Identify the weed

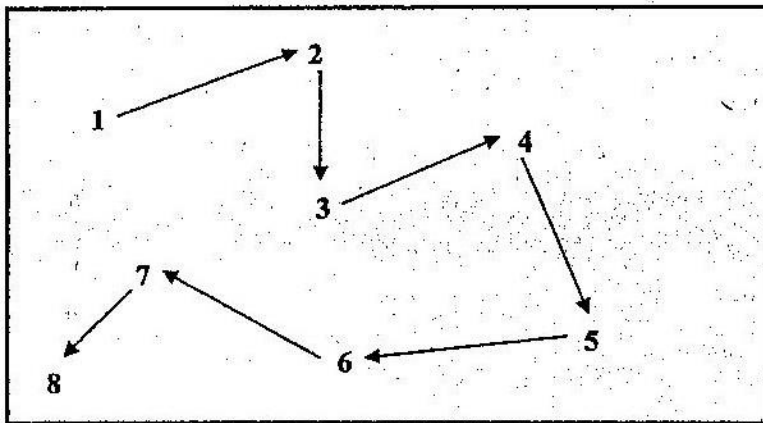
b) Give one reason why it is difficult to control the weed above

c) What do you understand by the term Allelopathic weeds

d) state two ways in which herbicides Kill weeds

e) Give one advantage of tillage as a method of weed control

19. The diagram below illustrates a method of collecting soil samples from a field



a) Identify the method illustrated

b) Describe four steps that should be followed when collecting soil samples

i) _____

ii) _____

iii) _____

iv) _____

SECTION C (40 MARKS)
Answer any two questions from this section

20. State and explain five factors that influence the rate of soil erosion

b) Outline five cultural methods of soil and water conservation

21. a) Describe the land tenure systems which have been used in Kenya

b) Outline objectives of land tenure reforms which have been carried out in Kenya after independence

22. Describe the establishment of Kales under the following sub headings

a) Nursery preparation

b) Establishment in the nursery

c) Management of seedlings in nursery

d) Transplantation of seedlings

e) Outline six physical methods of pest control in crops.

NAME.....INDEX NO.....
SIGNATURE.....DATE.....

443/2
AGRICULTURE
PAPER 2
MARCH /APRIL 2010
2HOURS

SECTION A (30MKS)

Answer all questions in this section

1. Name the breed of poultry with a greenish sheen

2. Give two reasons for debeking in poultry roduction

3. What is cropping in fish farming

4. Give four factors considered when siting a milking prlor

5.State four ways of controlling the tsetse flies

6. Give two proedispoding factors of foot-rot in ship

7. What is the fuction so oesophagus groove in ruments

8.Give two reasons for crutchingas a management practice in sheep

9.What is hybrid viguor

b) State four chracteristics of dairy heifer one would look for during a selection of breeding stock.

10. State six causes of stress to flock of layers

11. State four methods of dehorning

12. State four functions of the worker bees in the bees colony

13. Differentiate between a feed and feed stuff

14. List four characteristics of an effective acaricide

15. List two disadvantages of embryo transplant in cows.

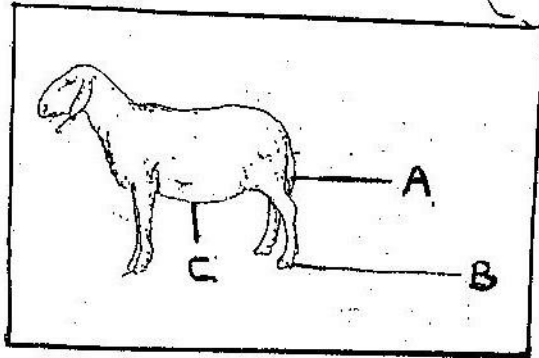
16. Give two reasons for high mortality in lambs

17. Give three reasons for flushing in sheep production.

SECTION B (20 MKS)

Answer all the questions

18. a) Below is a diagram of sheep with some part labelled A,B and C. Study the diagram and answer the questions that follows.



i) What operation is usually carried out in the part labelled A during a sheep's early stage of life

ii) Why is it necessary to carry out the operation in i) above

iii) At what age of sheep is it necessary to carry out the operation in i) above

iv) Give two methods of carrying out the operation in i) above

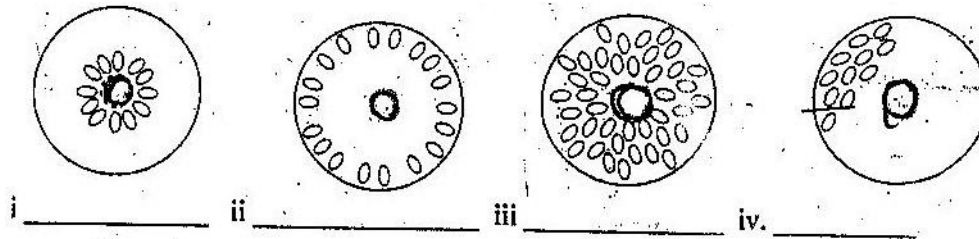
b) i) Which routine management operation is usually carried out on the part labelled B

ii) What problem would occur if the operation in b) i) above is not done

iii) Name two tools used to perform the operation in b) above

iv) How should the sheep be held when shearing wool around the part labelled C

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



a) Indicate below each diagram the condition in the brooder

b) Give four signs that may show that the hen is ready to sit on the eggs.

c) Distinguish between carrying capacity and stocking rate

SECTION C (40 MKS)

Answer any two questions in this section

20. Discuss bloat under the following sub headings

- a) Four causes
- b) Six symptoms
- c) Two control measures
- d) Treatment measures
- e) Name three species of animals affected by this disease

21. a) Outline the difference between diesel and petrol engine

b) Outline the uses of various materials and equipment during milking in dairy cattle.

22. a) Explain the factors that influence the choice of building material

b) Compare between the use of plunge dip and the use of a spray race.