TOP SCHOOLS PREDICTIONS

AGRICULTURE

KCSE PREDICTION TESTS (1-10)

2nd Series of Sampled Top Performing Schools Possible Questions in Agriculture Expected in the Forthcoming Annual Final KCSE Examinations for our Candidates.

SERIES 2

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MWALIMU AGENCY

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 1 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……....

Instructions to Candidates.

a) *Write your name & Index Number in the spaces provided.*

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c) *This paper consists of three sections **A,B** and **C***

d) *Answer **ALL** the questions in Section **A** and **B** and Answer two questions from Section **C.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 18	30	
B	19 – 22	20	
C	23 - 25	40	
		TOTAL SCORE	

SECTION A (30 MARKS)

Answer All the Questions in This Section

1. State **two** reasons why it is important to inoculate luceune seeds when planting. **(1 Mark)**

2. Give **two** reasons why maize should be harvested at milky stage for silage making. **(1 Mark)**

3. State **two** methods of controlling damping off disease. **(1 Mark)**

4. State **three** characteristics of sheet erosion. **(1½ Mark)**

5. Give **three** examples of joint products in the production process. **(1½ Mark)**

6. Give **four** causes of land fragmentation. **(2 Marks)**

7. Name **three** forms of agroforestry practiced by farmers. **(1½ Mark)**

8. How much of the fertilizer 20:20:0 would be applied in a plot that requires 30kg P_2O_5. **(2 Marks)**

9. Give **four** practices a farmer can carry out to ensure maximum use of nitrogenous fertilizer in a crop of maize. **(2 Marks)**

10. Give **four** reasons for carrying out seed selection in crop production. **(2 Marks)**

11. State **four** biotic factors that have a negative influence on crop production. **(2 Marks)**

12. State **four** importance of secondary cultivation. **(2 Marks)**

13. List **three** physical weathering agents in the soil formation process. **(1½ Mark)**

14. State **four** aspects of rainfall that affects crop production. **(2 Marks)**

15. State **four** roles of agricultural Development Co-operation. **(2 Marks)**

16. Name **two** classes of weeds based on their morphology. **(1 Mark)**

17. State **four** factors of production. **(2 Marks)**

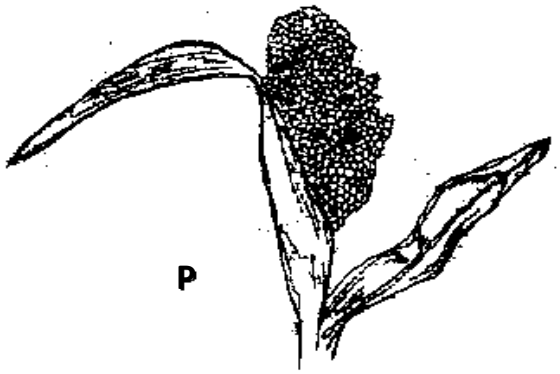
18. Name **four** improper farming methods that increase the rate of soil erosion. **(2 Marks)**

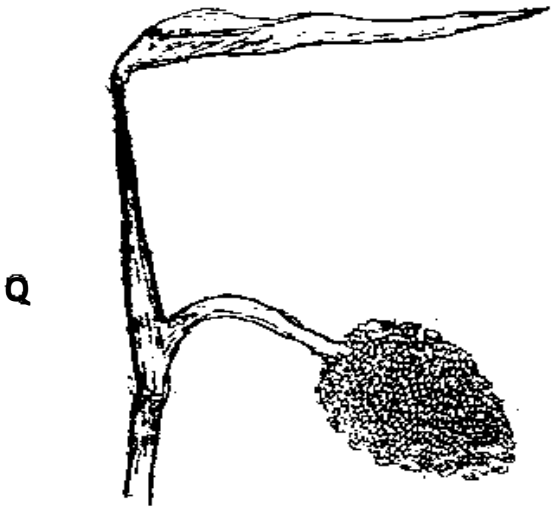
SECTION B: (20MARKS)

Answer All the Questions in This Section

19. State **five** factors that influence crop rotation program. **(5 Marks)**

20. Study **the** illustrations P and Q below and answer the following questions.



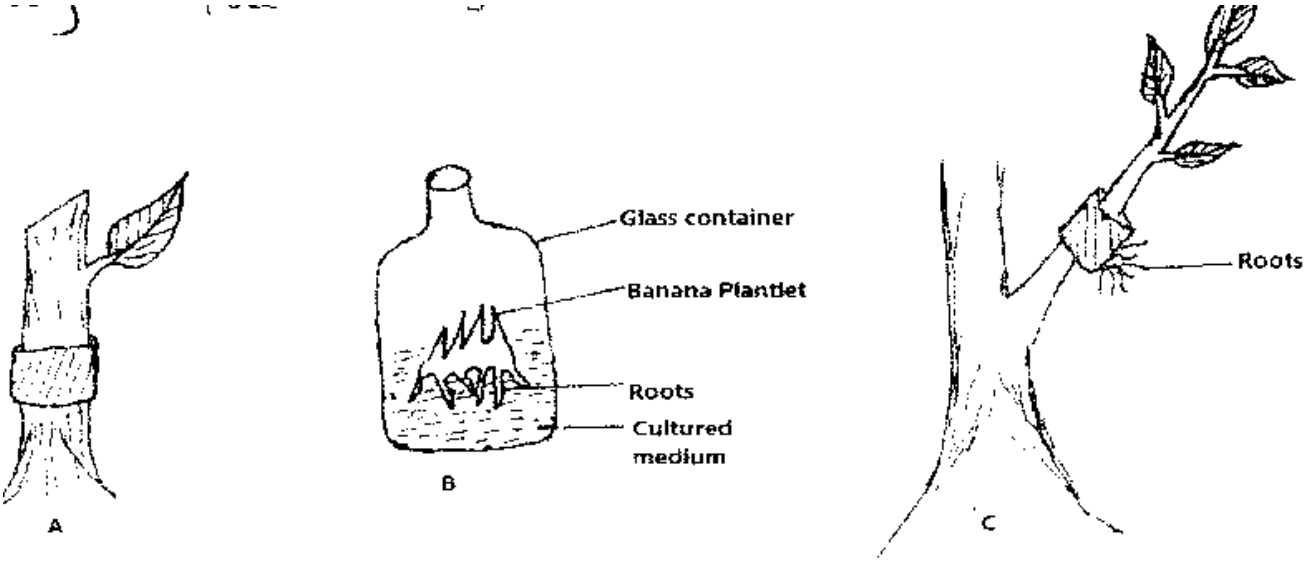


a) Which variety P or Q is prone to birds attack? **(1 Mark)**

b) Give a reason for your answer in 20 (a) above. **(1 Mark)**

c) Give **three** reasons for drying grains before storage. **(3 Marks)**

21. Study the diagrams below and answer the questions.



A. Identify the methods of crop propagation illustrated above. **(3 Marks)**

A ……..

B ……..

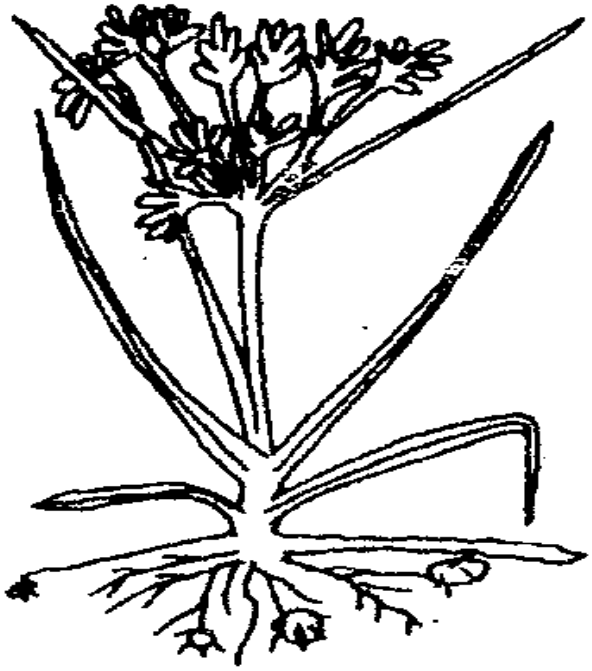
C ……..

B. Give **one** condition under which method C above is carried out. **(1 Mark)**

C. Give **two** importance of using the method of propagation illustrated in B above. **(1 Mark)**

22. Study the illustration below and answer the questions beneath.

M





N

a) Identify the weeds labeled

M **(½ Mark)**

N **(½ Mark)**

b) Give **two** reasons as to why it is difficult to control weed M. **(2 Marks)**

c) What is the economic importance of N? **(2 Marks)**

SECTION (C 40MARKS)

Answer any two questions from this section

23. Discuss maize production under

a) Ecological requirements. **(4 Marks)**

b) Land preparation and planting. **(8 Marks)**

c) Fertilizer application and weeding. **(8 Marks)**

24. a) describe the functions of agricultural marketing. **(10 Marks)**

b) Explain the role of agricultural co-operatives in Kenya. **(10 Marks)**

25. a) State the law of supply and the law of demand. **(4 Marks)**

b) Table 1 and 2 below gives information on the supply and demand of cabbages at a local market.

Table 1: Quantities of cabbages supplied at different prices.

Quantity of cabbages (kg)	Price of cabbages (Kshs/kg)		
1250	4.00	1200	3.50
1100	3.00		
1000	2.50		

800	2.00
550	1.50
250	1.00

Table 2: Quantities of cabbages bought at different prices.

Quantity of cabbages (kg)	Price of cabbages (Kshs/kg)
150	5.00
250	4.00
350	3.50
475	3.00
625	2.50
800	2.00
1100	1.50
1500	1.00

i) Using suitable scale and same axes draw and label supply and demand curves using the data provided in the table 1 and 2 **(6 Marks)**

ii) From the graph you have drawn, what was the price per kilogram when 1,1200kg of cabbages were supplied? **(1Mark)**

iii) From the graph, how many kilograms of cabbages were bought when the price was kshs.1.60 per kg? **(1Mark)**

iv) How many kilograms of cabbages were supplied at the market equilibrium **(1 Mark)**

v) What was the price of cabbages at the market equilibrium **(1 Mark)**

c) What factors would affect the supply of vegetables in a local market? **(6 Marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 1 PAPER 2

2 HOURS

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SECTION A (30 Marks)

1. Name **two** dairy goats breeds reared in Kenya. **(1 Mark)**

2. Give **two** reasons why Jersey breed of cattle are better suited to arid areas than Friesians cattle. **(1 Mark)**

3. State **two** maintenance practices of milking equipments. **(1 Mark)**

4. Name **four** components of power transmission system of a tractor. **(2 Marks)**

5. State **four** advantages of treating timber before construction. **(2 Marks)**

6. Give **three** ways of stimulating milk let down in a dairy cow. **(1½ Marks)**

7. List **four** functions of calcium in dairy cows. **(2 Marks)**

8. Name **two** practices aimed at keeping birds busy in a deep litter system. **(1 Mark)**

9. Give **four** symptoms of mastitis visible on the black plate in a strip cup. **(2 Marks)**

10. State any **four** signs of parturition in a cow. **(2 Marks)**

11. Name **two** points of attachment of the tractor drawn implements. **(1 Mark)**

12. Outline **four** importance of the lubrication system in a tractor. **(2 Marks)**

13. State **two** methods of stocking a beehive. **(1 Mark)**

14. State **four** structural requirements of a rabbit hutch. **(2 Marks)**

15. State **four** signs of stress in a flock of chicken. **(2 Marks)**

16. State **four** major characteristics of succulent roughages. **(2 Marks)**

17. Name the farm tool and equipment used for the practices mentioned below. **(2 Marks)**

i) Deworming livestock orally using tablets.

ii) Cutting off wolf –teeth in piglets.

iii) Weighing farm produce and inputs.

iv) Measuring distances and lengths.

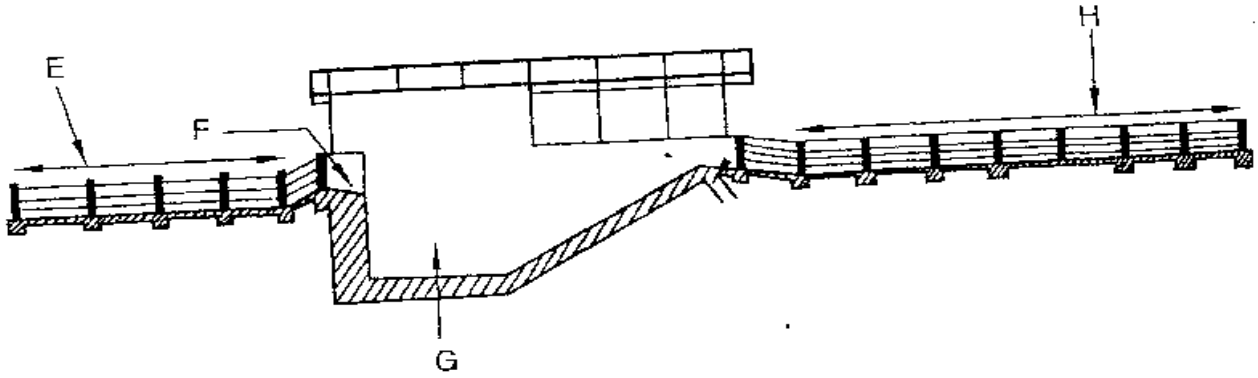
18. Name **two** diseases transmitted by the brown ear tick. **(1 Mark)**

19. List down **three** roofing materials commonly used by farmers. **(1½ Mark)**

SECTION B (20 MARKS)

Answer all questions in this section

20. The following farm structure is used in livestock management practice. Use it to answer the questions that follow.



a) Identify the structure. **(1 Mark)**

b) Label the parts named E to H. **(2 Marks)**

E ……..

F ……..

G ……..

H ……..

c) What is the use of the parts labeled E and H. **(2 Marks)**

E ……..

H ……..

21. Study the illustration below and answer the questions beneath.



i) Identify the illustration above. **(1 Mark)**

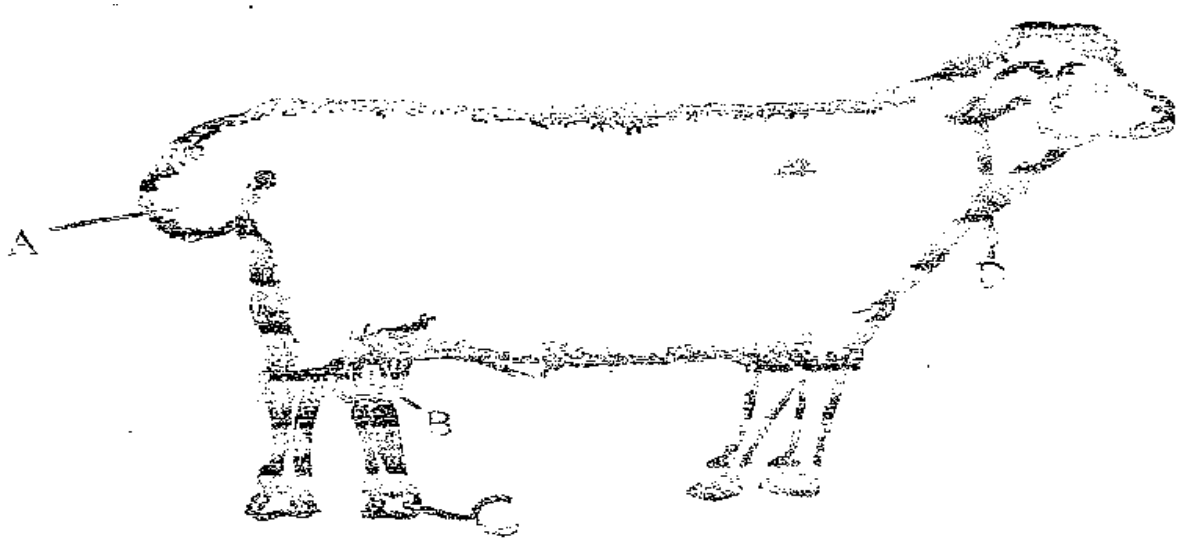
ii) Name the parts labeled. **(1 Mark)**

X ……..

Y ……..

iii) State **three** uses of the above implement. **(3 Marks)**

22. Study the diagram below and use it to answer the following questions.



a) Name the operations carried out on parts labelled A, B, C, D **(2 Marks)**

A **……**

B **……**

C **……**

D **……**

b) State **two** reasons why operation A is necessary. **(2 Marks)**

c) State **one** problem the animal will face if operation C is not carried out. **(1 Mark)**

23. Calculate how much of wheat (10% D.C.P) would be mixed with sunflower seed cake (35% DCP) to come up with 100kg duck mash 20% DCP use the Pearsons square method. **(5 Marks)**

SECTION C (40 MARKS)

Answer any two questions from this section

24. a) Describe the differences between diesel and petrol engines. **(10 Marks)**

b) State five care and maintenance practices done to a tractor battery. **(5 Marks)**

c) Explain the procedure of harvesting honey from the Kenya top bar hive. **(5Marks)**

25. a) Describe African swine fever disease under the following;

i) Animals affected. **(1 Mark)**

ii) Causal organism. **(1 Mark)**

iii) Symptoms of attack. **(4 Marks)**

iv) Control measures. **(4 Marks)**

b) Describe the factors to consider when selecting livestock for breeding. **(10 Marks)**

26.a) What preparations should be made by a farmer to be ready for the arrival of day - old chicks. **(5 Marks)**

b) State the care to be accorded to the chicks for the first-two days. **(5 Marks)**

c) Describe how a farmer can artificially rear chicks from one day old up to the end of brooding. **(10 Marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 2 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

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SECTION A (30 MARKS)

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

1. **a)** State three ways by which agriculture contributes to national development. **(1 ½ mk)**

b) State two effects of high level of Education and technology on agricultural production. **(1mk)**

2. Name two insect pests that attack sorghum in the field. **(1mk)**

3. State two conditions when opportunity costs are zero. **(1mk)**

4. State four conditions limiting shifting cultivation. **(2mks)**

5 **a)** State three reasons for practicing grafting in citrus production **(1/ ½ mk)**

b) Give the method used in breaking seed dormancy in the following crop;

i) Calliandra **(½ mk)**

ii) Rice

6. Name two ways by which the PH of a soil is raised. **(1mk)**

7. State four reasons why organic matter is necessary in the soil **(2mks)**

8. State two disadvantages of surface irrigation. **(1mk)**

9. State two advantages of mixed pasture. **(1mk)**

10. Mention four types of soil erosion water. **(1mk)**

11. State two conditions for maximum efficiently of herbicides. **(1mk)**

12. State two functions of polythene sheet when used as mulch material. **(1mk)**

13. State four principals of cooperative societies. In Kenya **(2mk)**

14. Differentiate between coppicing and pinching out. **(2mks)**

15. State two sources of nitrogen in the soil for plants. **(1mk)**

16. Give two benefits of possessing certificate of land ownership. **(1mk)**

17. State four ways of improving labour efficiency in the farm. **(2mks)**

18. State any two benefits of minimum tillage. **(2mks)**

20. Give one reason why each of the following nursery management practices are carried out .

i) Hardening off **(1mk**

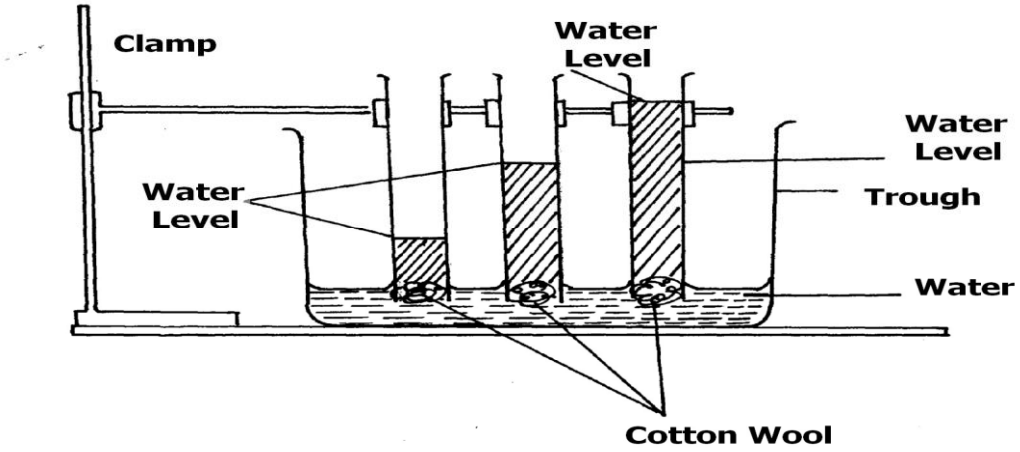
ii) Watering before transporting seedlings from the nursery bed. **(1mk)**

iii) Hardening in onions **(1mk)**

SECTION B (20MARKS)

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

20. The diagram below shows an experiment set up using soil types A, B and C and observations made after 24 hours.



i) What is the experiment above designed to study? **(½ mk)**

ii) Name the three soil types A, B, and C **(1 ½ mk)**

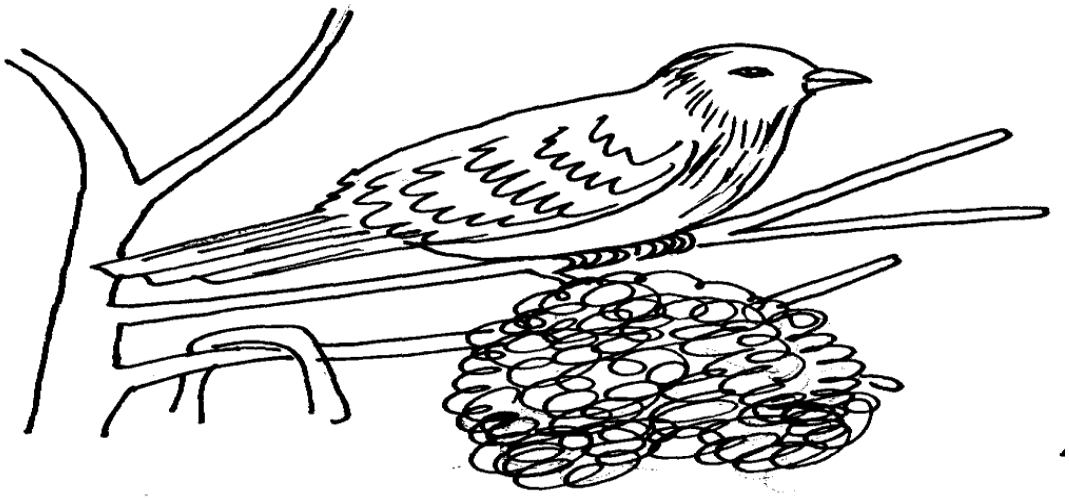
iii) What is the characterizes textures of soil types A and C? **(1mk)**

A

C

iv) State how a farmer would improve the structure of soil type A **(½ mk)**

20. Below is a diagram of a bird which is a crop pest.

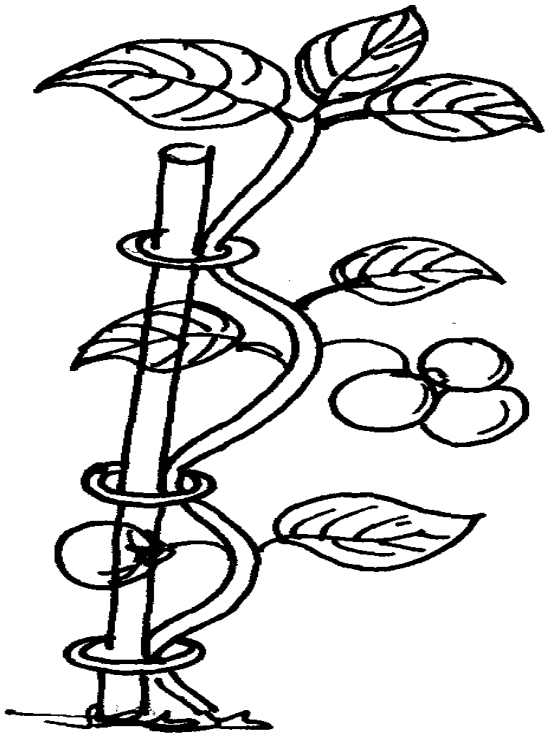


i) Identify the pest. **(½ mk)**

ii) State three ways by which the bird causes loss in crops **(1 ½ mks)**

iii) State TWO methods that can be used in the control of the pest. **(1mk)**

22. Below is a diagram of a tomato plant.



i) Identify the practice illustrated **(½ mk)**

ii) Describe the procedure followed in spraying the crops with a fungicide in power form, water and a knapsack sprayer. **(1 ½ mks)**

iii) Name one fungal diseases that can be controlled in the crop using the procedure above. **(½ mk)**

iv) State two safety measures that shoulder be taken while spraying the crops with a fungicides. **(1mk**

23. A farmer can combine dairy meal and home made fees in feeding dairy cattle. Study the table below answer Questions that following.

Dairy meal (kg)	Home made feed (Kg)	Marginal Rate of Substitution
1	48	O
2	39	V
3	32	7
4	27	W
5	23	4
6	21	X
7	20	1
8	19	Y

i) Given the information above, Calculate the marginal rate of substitution and give values of V, W, X, and Y. **(2mks)**

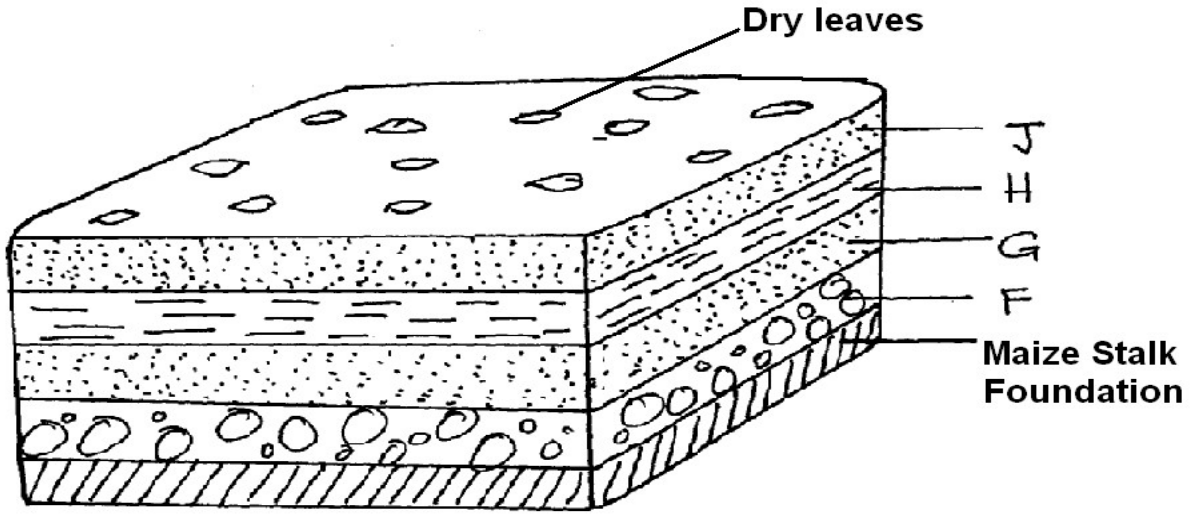
ii) Given that the price of dairy meal is Ksh 8.00 per kg. and that of home made feeds is Kshs 2/kg, calculate the least cost contribution. **(1 ½ mks)**

24. Given that at a price of Ksh 2000 per bag 20 bags of maize are demanded but when the price changes to Kshs 1800 /bag, 22 bags are demanded.

Calculated the Elasticity of demand. (Show your working) **(1 ½ mks)**

ii) What type of elasticity of demand is this in 24 (i) above? **(½ mk)**

25. The diagram below is a presentation of a cross section through a compost heap.



i) Name the parts labeled O,F,G,H and J **(2 ½ mks)**

E……...

F……...

G……..

H……

J……

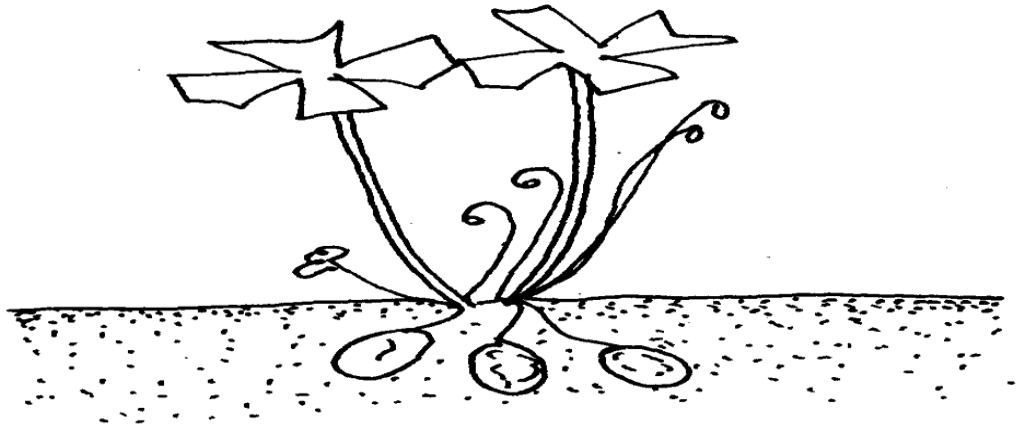
ii) Give importance of the parts labeled J, H and G. **(1 ½ mk)**

J……

H……

G……

26. The diagram below illustrates a weed.



Identify the weed **(½ mk)**

State one competitive ability of the weed illustrate above. **(½ mk)**

SECTION C

Answer any two questions from this section in the spaces provided after question 29.

27. **a)** Explain five factors that influence soil productivity. **(10mks)**

b) Outline five factors that a farmer would consider before deciding on the type of irrigation in crop production. **(5mks)**

c) Describe five qualities of the mother plant should be considered when selecting vegetative materials for planting. **(5mks)**

28. **a)** List seven benefits of using organic mater for mulching. **(7mks)**

b) Describe the field production of Napier grass under the following sub- headings

(i) Planting **(3mks)**

(ii) Fertilizer and manure **(3mks)**

(iii) Utilization **(3mks)**

c) Describe the procedure followed when transplanting tree seedlings from a bare root nursery bed. **(4mks)**

29. a) Explain four agriculture practices which pollute water. **(8mk)**

b) Explain eight factors that determine the spacing of a crop. **(8mks)**

c) State four precautions one should take when harvesting coffee.

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 2 PAPER 2

2 HOURS

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SECTION A

Answer all questions in the space provided.

1. Name four causes of stress in a flock of layers **(2mks)**

2. State two maintenance practices of a cold chisel **(1mk)**

3. Suggest two factors that can lead to conception failure after a female cow has been served. **(1mk)**

4. Give two hormones that influence milk let down **(1mk)**

5. Suggest three factors that make embryo transplant unpopular with many livestock Farmers **(1 ½ mks)**

6. Give four reasons why boran cattle are more suitable for beef production under Kenya's ranch conditions than exotic beef cattle **(2mks)**

7. State four factors that may lead to culling in dairy cattle **(2mks)**

8. Give functional difference between the following tools

a) Cross-cut saw and a rip saw **(2mks)**

b) Spirit level and a plumb bob **(2mks)**

c) Give four importance of breeding records **(2mks)**

9. Give four control measures of a liver flukes in livestock **(2mks)**

10. State three factors which influence the variation of the rate of respiration in various farm animals **(1 ½ mk)**

11. List four non-chemical methods of controlling ticks in cattle **(2mks)**

12. a) Give two roles of a queen bee in a colony **(1mk)**

b) Give two signs of parturition in a doe **(1mk)**

13. Differentiate between a roughage and a concentrate feed in livestock production **(2mks)**

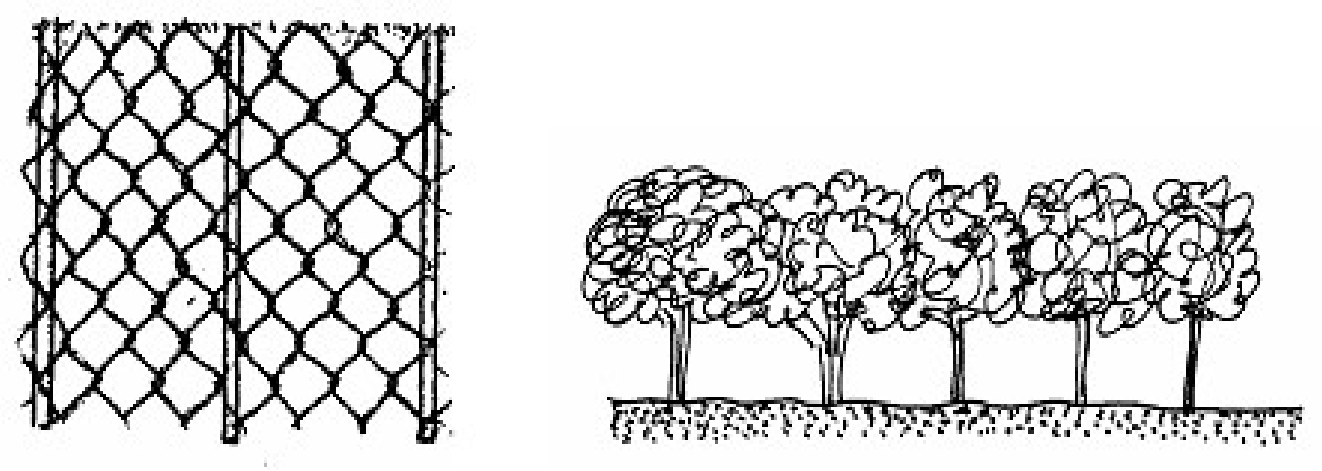
14. Give four reasons why dehorning is done in livestock **(2mks)**

15. State any four characteristics of the laudrace breed of pigs (2mks)

SECTION B (20 MARKS)

Answer all questions in the space provided.

17. Study the illustration of fences below and answer the questions that follow



a) Name the type of fences illustrated above **2mks)**

X……..

Y……..

b) Name the correct tool used in maintenance of fence Y **1mk)**

c) State three advantages that fence Y may have over fence X **(3mks)**

18. Study the chicken condition illustrated below and answers the questions that follow

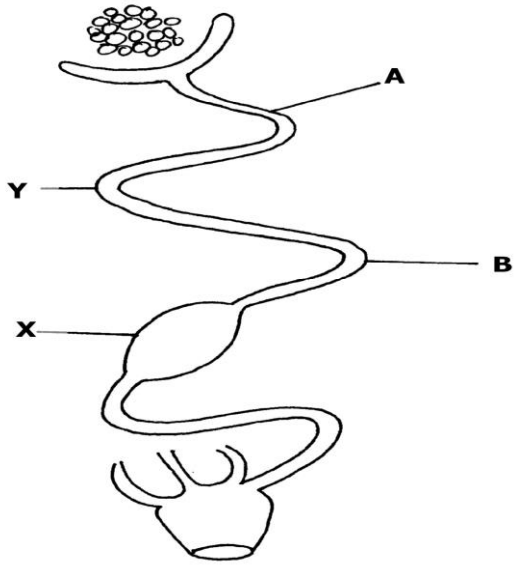


a) Identify the deficiency nutrient responsible for the condition above **(1mk)**

b) Give four functions of vitamins in livestock production **(2mks)**

19. Below is a diagram representing the reproductive system in poultry. Study it and answer

the questions.



a) Name the parts labeled **(3mks)**

A…….

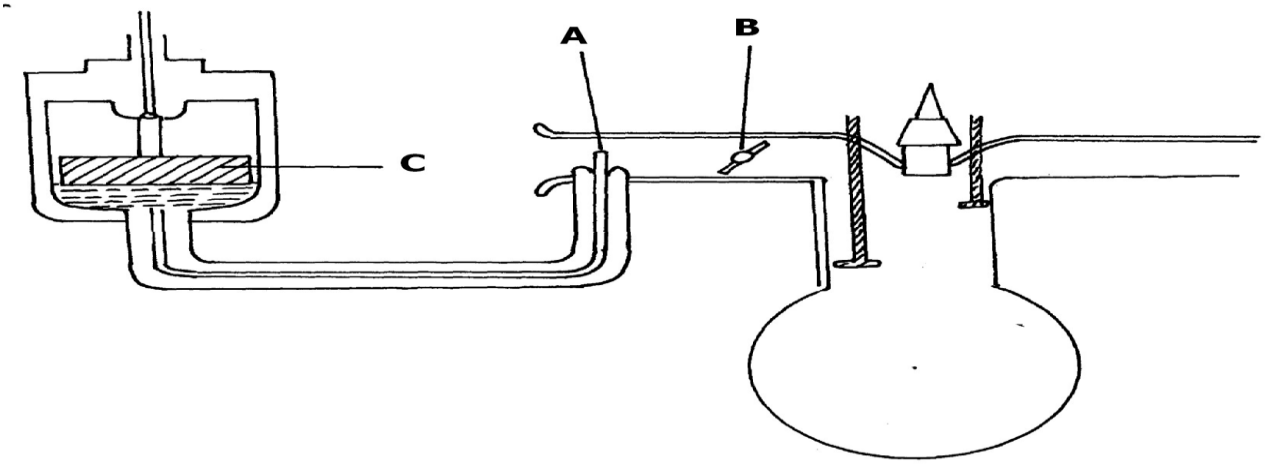
X…….

Y…….

b) Name two substances added to the egg at section labeled Y **(1mk)**

c) How long does it take the egg to stay at section labeled X? **(1mk)**

20. Study the illustration of a carburetor below and answer the questions



a) Identify the parts labeled **(3mks)**

A……

B……

C……

b) State two functions of the carburetor above **(2mks)**

c) Identify the type of fuel system above **(1mk)**

SECTION C

Answer Any two questions in this section

21 **a**) Discuss East coast Fever disease under the following sub-headings

i) casual organism **(1mk)**

ii) Symptoms of attack **(5mks)**

iii) Control measures **(3mks)**

b) Apart from the disease in (20a) above name other two diseases transmitted by ticks **(2mks)**

c) Describe the life cycle of a three host tick **(8mks)**

22. a) Outline the factors to consider when planning for the construction of a poultry house. **(8mks)**

b) State desirable physical characteristics which should be considered when selecting a gilt for breeding **(8mks)**

c) State the factors influencing the choice of building materials **(4mks)**

23. **a)** State any four causes of overheating in a water cooled engine **(4mks)**

b) Describe the maintenance practices to be carried out in a cooling system of a tractor **(8mks)**

c) Explain the limitations of a tractor power in farm mechanization **(8mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 3 PAPER 1

2 HOURS

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SECTION A (30 MARKS)

Answer ALL the questions in this section in spaces provided.

1. **(a)** What is minimum tillage? **(1 Mark)**

(b) Give**four** farming practices that may help in achieving minimum tillage. **(2 Marks)**

2. A part from deficiency symptoms in crops name **two** other methods used to detect mineral nutrient deficiency in crops**.** **(1 Mark)**

3. List down **four** disadvantages of plastic water tank for water storage on the farm. **(2 Marks)**

4. Give **two** importance of chitting in potato production. **(1Mark)**

5. State **two** ways of controlling maize stalk-borers. **(1 Mark)**

6. Give **four** qualities of a mother plant which should be considered when selecting vegetative material for propagation. **(2 Marks)**

7. State **two** factors that would determine the width and depth of a cut off drain. **(1 Mark)**

8. What is the importance of taking inventory? **(1 Mark)**

9. Outline **two** ways in which the level of education and technology influence the efficiency of agricultural production. **(1 Mark)**

10. Outline **four** ecological requirements for cabbages. **(2 Marks)**

11. Name **two** examples of working capital in wheat production. **(1 Mark)**

12. What is profit maximization in agricultural economics? **(1 Mark)**

13. Mention **two** importance of parent material in soil profile. **(1 mark)**

14. Mention **four** ways of modifying soil temperature in crop production. **(2 Marks)**

15. Mention **four** factors which determine the stage at which crops are harvested. **(2 Marks)**

16. State one condition in which each of the following documents is used:-

i) Invoice. **(1 Mark)**

ii) Delivery note. **(1 Mark)**

iii) Receipt. **(1 Mark)**

17. Give **three** advantages of grass-legume pasture over pure grass pasture. **(1½Marks)**

18. List **three** ways in which labour peaks can be overcome in the farm. **(1½Marks)**

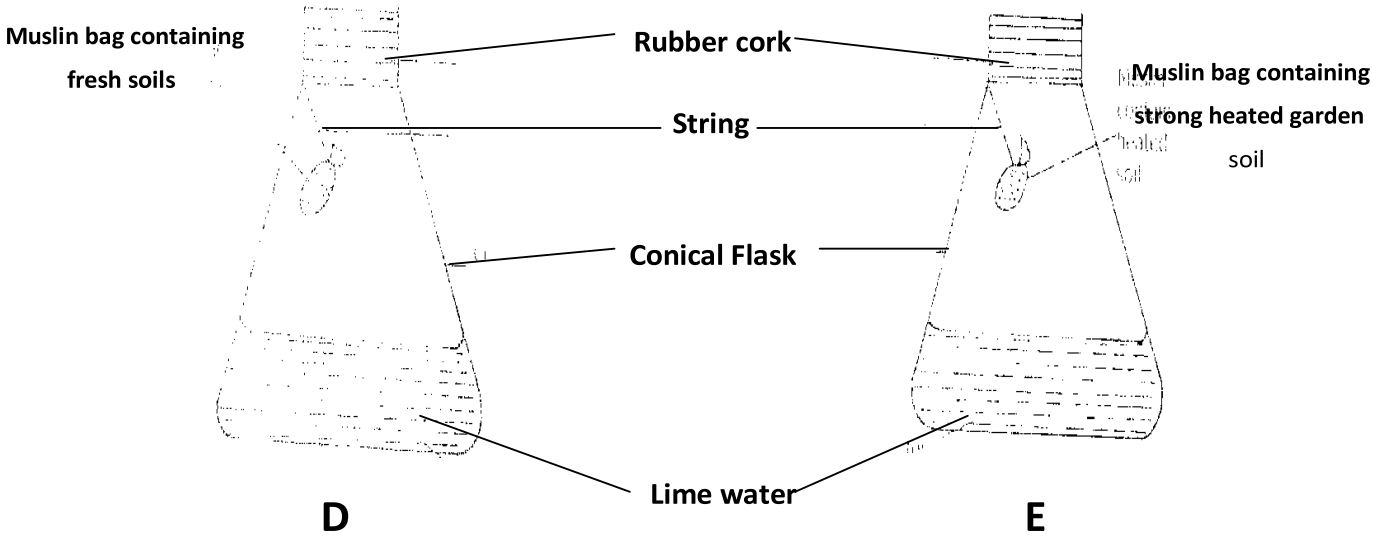
19. State **three** physical characteristics used in classifying soil. **(1½Marks)**

20. What is rogueing in crop production? **(½Mark)**

SECTION TWO (20 MARKS)

Answer ALL the questions in this section in the spaces provided

21. The diagram below show the experiment carried out by a form 1 class. Study them carefully and answer the questions that follow:

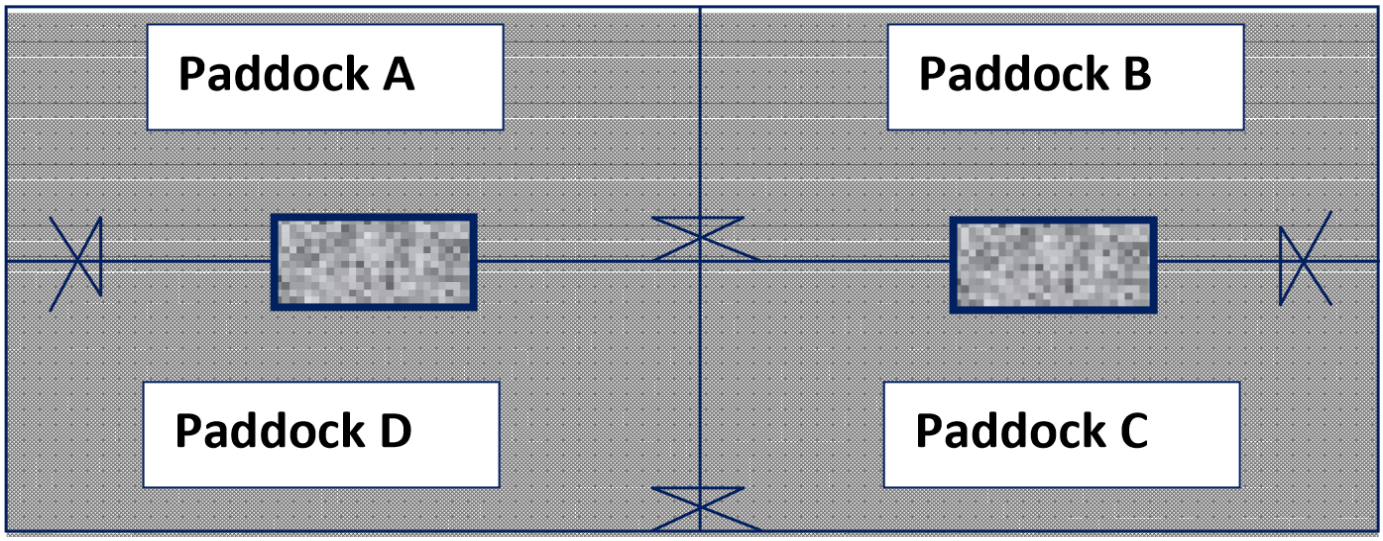


a) What was the aim of the experiment? **(1 Mark)**

b) What was the observation that form 1 students made at the end of the experiment in flasks **D** and **F?** **(2 Marks)**

c) Give the reasons for the observations made if flask D. **(1 Mark)**

22. The diagram below shows a system of grazing. Study it and answer questions that follow

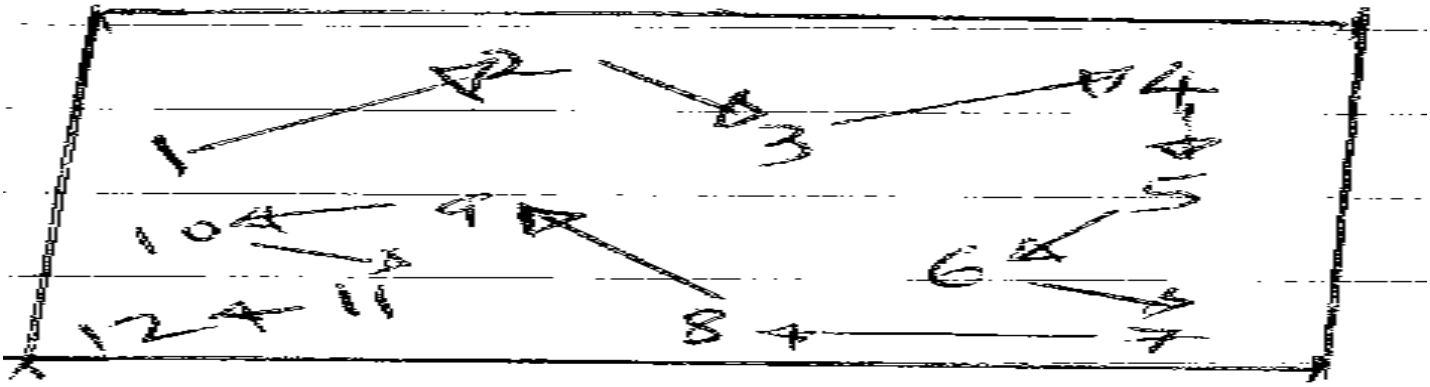


a) Identify the type of grazing system shown above. **(1 Mark)**

b) Identify the points shaded in the above diagram. **(1 Mark)**

c) State **three** importance of zero grazing**.** **(3 Marks)**

23. The diagram below shows a soil sampling method

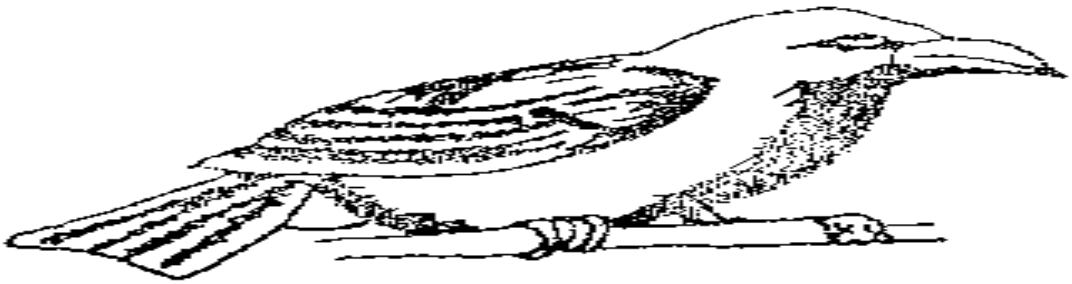


i) Identify the method. **(1 Mark)**

ii) State **six** activities that are carried out during soil sampling in the field. **(3 Marks)**

iii) What information should the sample have before being taken to the laboratory? **(2 Marks)**

24. Below is a diagram of bird labeled A. which is a crop pest



i) Identify the bird **(1 Mark)**

ii) State **two** ways in which the bird causes loss in crops. **(2 Marks)**

iii) State **four** methods which are used to control the pest. **(2 Marks)**

SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided

25. The table below represents the yield of maize in 90kg bags in response to application of different quantities of planting fertilizer

i) Fill in the blank spaces (9 Marks)

Input 50kg bag fertilizer	Output 90kg bag maize	Average product (AP)	Marginal product (MP)
0 1 2 3 4 5 6 7 8	6 10 24 31 36 40 43 43 40		

ii) Suggest the best level of production in relation to the inputs and outputs. **(1 Mark)**

b) A farmer is considering undertaking the production of either maize or beans. Study the following information about the two crops the answer the questions that follow:

i) **Maize**

Yield per hectare 5,500 kg
Price 15 per kg
Cost of cultivation/ha kshs 3000
Amount of seeds/ha 25kgs
Cost of DAP fertilizer kshs 1,500
Amount of DAP fertilizer kshs 100
Labour requirements/ha 50 man days
Cost of labour kshs 150 per man
Amount of CAN fertilizer 3 bags Cost of CAN fertilizer/bag kshs 1000

ii) **Beans**

Yield per hectare 5,000 kg
Price 500 per kg
Cost of cultivation/ha kshs 3,600
Labour requirements/ha 75 man days
Cost of labour kshs 200 per man day
Cost of DAP fertilizer/bag kshs 1,500
Amount of DAP fertilizer/ha 2 bags
Cost of seeds/kg kshs 800
Amount of seed/ha 20kg

Amount of CAN fertilizer/bag	1 bag
Cost of CAN fertilizer/bag	kshs 1000
Cost of sprays	kshs 3,000

i) Calculate the gross margins for each crop. **(9 Marks)**

ii) Fromyour calculation, which crop is profitable to grow? **(1 Mark)**

26. Discuss the field production of maize under the following subheadings

a) Land preparation. **(5 Marks)**

b) Planting. **(6 Marks)**

c) Field practices. **(5 Marks)**

d) Harvesting. **(4 Marks)**

27. a) Outline **five** reasons why early planting is considered advantageous in crop propagation. **(5 Marks)**

b) Outline**five** methods through which extension advice and information can reach farmers. **(5Marks)**

c) Give**4** reasons why a well drained soil is suitable for crop production. **(4 Marks)**

d) State the uses of water in the farm. **(6 Marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 3 PAPER 2

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

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Instructions to Candidates.

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c) *This paper consists of three sections **A,B** and **C***

d) *Answer **ALL** the questions in Section **A** and **B** and Answer two questions from Section **C.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 20	30	
B	21 – 24	20	
C	25 - 27	40	
		TOTAL SCORE	

SECTION A(30 MARKS)

Answer all the questions in this section in the spaces provided

1. Name a goat breed that can be used for the production of mohair. **(½ Mark)**

2. State **four** factors that influence the quality of bricks. **(2Marks)**

3. Give **three** problems associated with lambing. **(1½Marks)**

4. Give **two** qualities of creep food. **(1 Mark)**

5. Name **two** diseases that affect female animals only. **(1 Mark)**

6. State **four** advantages of farm mechanization. **(2 Marks)**

7. State **three** management practices that would ensure maximum harvest of fish in a fish pond. **(1½Marks)**

8. Name the **four** compartments of a ruminant stomach in a sequence. **(2 Marks)**

9. List **two** sources of farm power which are environmentally friendly. **(1 Mark)**

10. State **two** uses of green houses. **(1 Mark)**

11. Which hormone stimulates milk let-down? **(½ Mark)**

12. Name **four** components of power transmission in a tractor. **(2 Marks)**

13. Give a reason as to why each of the following is important in the diet of young animals.

i) Phosphorous **(1Mark)**

ii) Vitamin C **(1 Mark)**

14. State **four** reasons why a farmer would choose to use a disc plough rather than a mould plough. **(2 Marks)**

15. Name **two** type of grass mowers commonly used in Kenya. **(1 Mark)**

16. Name the appropriate saw used for carrying out each of the following operations. **(1½Marks)**

i) Cutting timber across the grains.

ii) Cutting timber along the grains.

iii) Cutting unwanted branches from a fruit tree.

17. Outline **four** objectives of livestock breeders. (2 Marks)

18. Name **two** cattle diseases caused by a virus. (2 Marks)

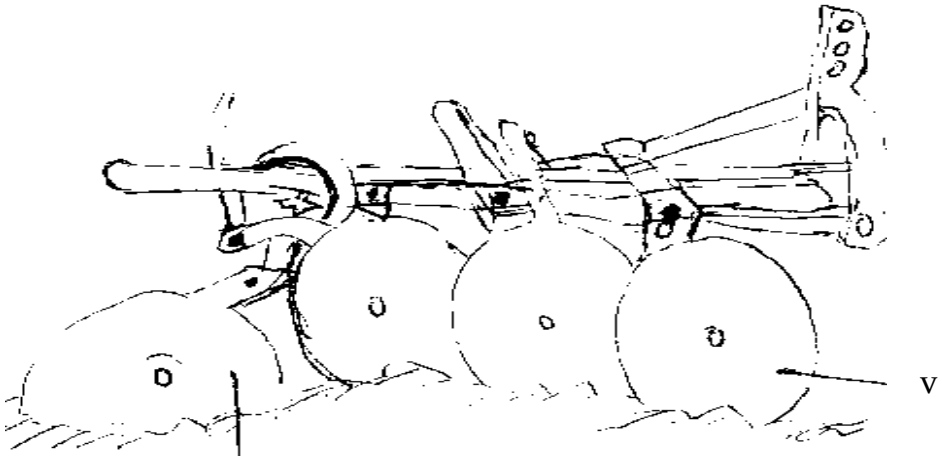
19. State **four** ways of minimizing sediments in a plunge dip. (2 Marks)

20. List **four** symptoms of parasitic attack on livestock. (2 Marks)

SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided

21. The diagram below represents an implement



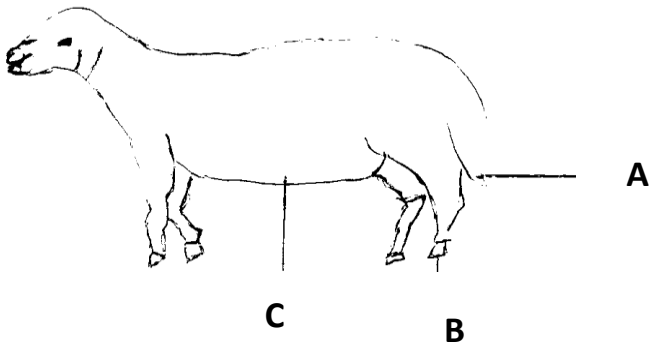
i) Identify the implement. **(½ Mark)**

ii) Name the parts labeled U and V and give one function of each **(3 Marks)**

	Part	function
U	……	……
V	……	……

iii) State **four** maintenance practices carried out on the implement shown on the diagram.**(2 Marks)**

22. A diagram of a sheep is shown below. Study the diagram and answer the questions that follow.



i) What operation is usually carried out on the part labeled A? **(½ Mark)**

ii) Give **two** reasons for carrying out the operation stated in(i) above? **(2 Marks)**

iii) At what age should the operation in (i) above be carried out? **(1 Mark)**

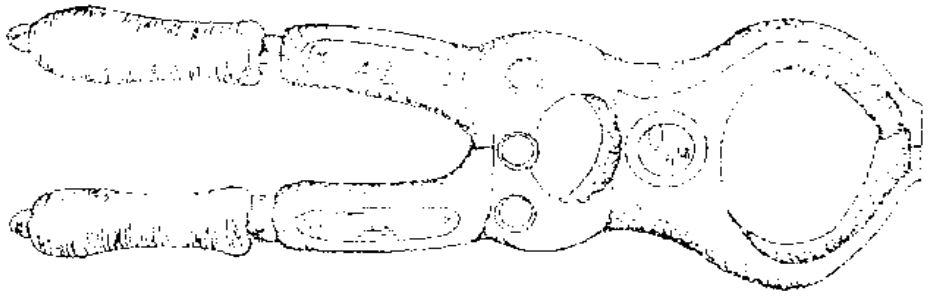
iv) Give **two** methods of carrying out the operation in (i) above. **(1 Mark)**

v) Which routine operation is usually carried out on the part labeled B? **(1 Mark)**

vi) Name the disease that is likely to affect the sheep if the operation stated in (v) above is not carried out**.** **(1 Mark)**

vii) Explain how the sheep should be restrained when shearing the wool around the part labeled C? **(1Mark)**

23. Below is an illustration of farm equipment.



a) Identify the tool. **(1 Mark)**

b) Describe the procedure followed when using the tool identified in (a). **(3 Marks)**

24. a) Define the term ration as used in livestock nutrition. **(1 Mark)**

b) A farmer wanted to prepare a 200kg of pig's ration containing 16% D.C.P using the Pearsons square method. Calculate the amount of maize containing 10% D.C.P and cotton seed containing 28% D.C.P the farmer would need to prepare the ration *(show your work).* **(2 Marks)**

SECTION C

Answer any TWO questions in this section in the spaces provided

25. a) Describe the procedure followed when using the hypodermic syringe and needle to administer drugs to cattle**.** **(3 Marks)**

b) Outline**six** reasons for maintaining livestock in good health**.** **(6 Marks)**

c) Discuss coccidiosis under the following headings.

i) Casual organism **(1 Mark)**

ii) Livestock species attacked**.** **(2 Marks)**

iii) Symptoms of attack. **(4 Marks)**

iv) Control measures. **(4 Marks)**

26. a) Discuss the structural and functional difference between petrol and diesel engine. **(8 Marks)**

b) Name the strokes in a four stroke engine and describe how each operates. **(12 Marks)**

27. a) Describe the management practices that a poultry farmer should carry out to reduce stress in a flock of layers. **(10 Marks)**

b) Distinguish between carrying capacity and stocking rate. **(2 Marks)**

c) outline **eight** advantage of rotational grazing as a pasture management practice in livestock production **(8 Marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 4 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……....

Instructions to Candidates.

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SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 20	30	
B	21 – 27	20	
C	28 - 30	40	
		TOTAL SCORE	

SECTION A (3OMKS)

Answer all the questions in this section in the spaces provided

1. Give **two** reasons why agriculture is looked at as an artistic practice **(2mks)**

2. Name **four** species of trees and shrubs commonly used in agro-forestry **(2mks)**

3. Outline **two** disadvantages of communal land tenure system **(lmk)**

4. Differentiate between pricking out and hardening off in crop production **(lmk)**

5. Give **three** different types of soil water **(1 ½ mks)**

6. Explain the following terms **(2mks)**

(i) Elasticity of demand

(ii) Elasticity of supply

7. Highlight **two** factors that influence the stage at which crops are harvested **(lmk)**

8. Give **two** ways of utilizing napier grass as a forage crop **(lmk)**

9. Mention **two** methods of improving labour productivity on a farm **(lmk)**

10. State **two** ways the level of education and technology affect agricultural production in Kenya **(lmk)**

11. Give **two** signs of crop infestation by root nodes namatodes **(lmk)**

12. State **one** reason why farm yard manure should not be applied in a field of carrots **(½ rnk)**

13. Name **two** chemicals used in water treatment **(lmk)**

14. A farmer was advised to apply 210 kg of calcium of ammonium nitrate (CAN 21-0-0) per hectare. Calculate the amount of nitrogen required **(2mks)**

15. Give **two** factors that discourage shifting cultivation **(lmk)**

16. State **four** reasons why tissues culture is encouraged in crop production **(2mks)**

17. State **four** precautions taken when harvesting tea **(2mks)**

18. **(a)** State **three** reasons why farm budgeting is carried out **(1½ mks)**

(b) Define the term opportunity cost **(½ mks)**

19. (a) Name **two** categories of crops on the basis of photosynthetic light requirement **(1mk)**

(b) Give **four** climatic factors that are influential during the soil formation process **(2mks)**

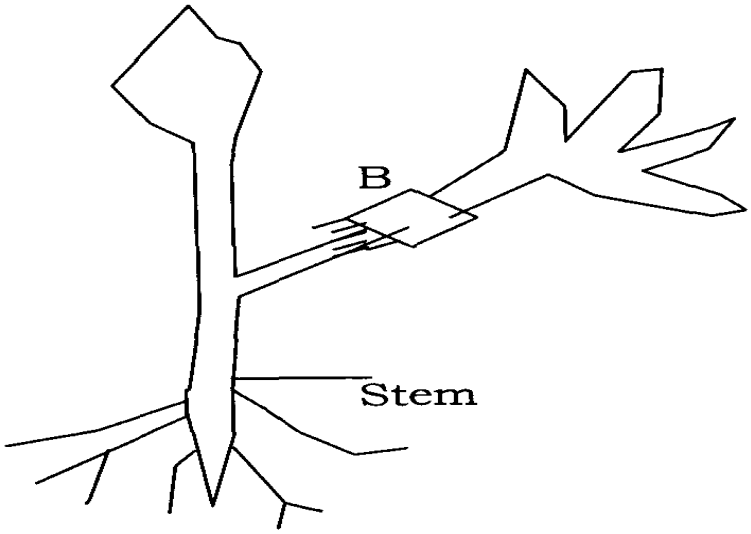
20. State **five** harmful effects of weeds **(2 ½ mks)**

21. Outline **three** advantages of using certified seeds in crop production **(1½ mks)**

SECTION B(20 MARKS)

(Answer all the questions in this section in the spaces provided)

22. Study the diagram below and use it to answer the questions that follow



(i) State the method of vegetative propagation shown in B **(½ mk)**

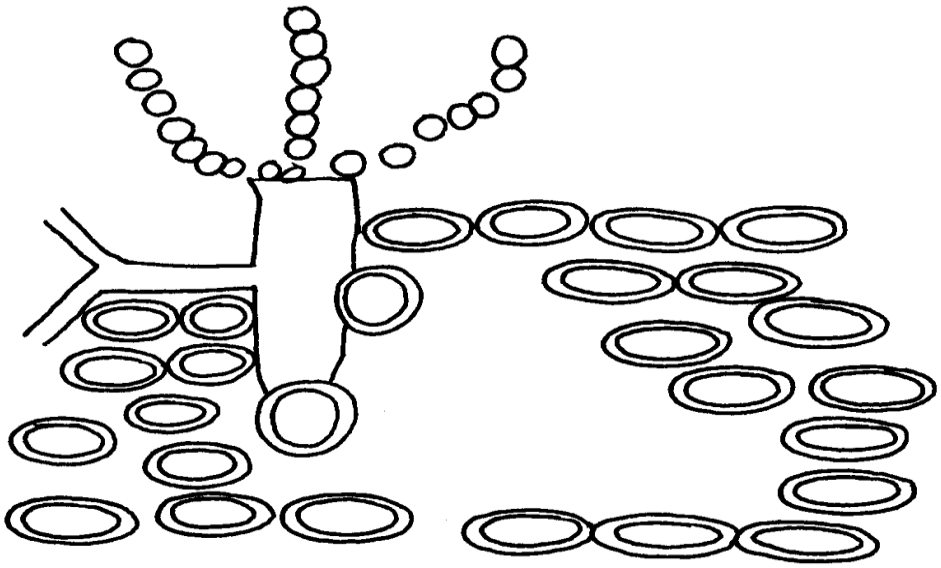
(ii) State **two** factors that lead to the development of roots in plant B **(2mks)**

23. Identify the farm record below and answer the questions that follow.

DATE	Disease and symptoms	Animals affected	Drug used	Cost of treatment	remarks

(a) Identify the farm record shown **(1mk)**

(b) State **three** different information that should be entered in the remarks column **(3mks)**



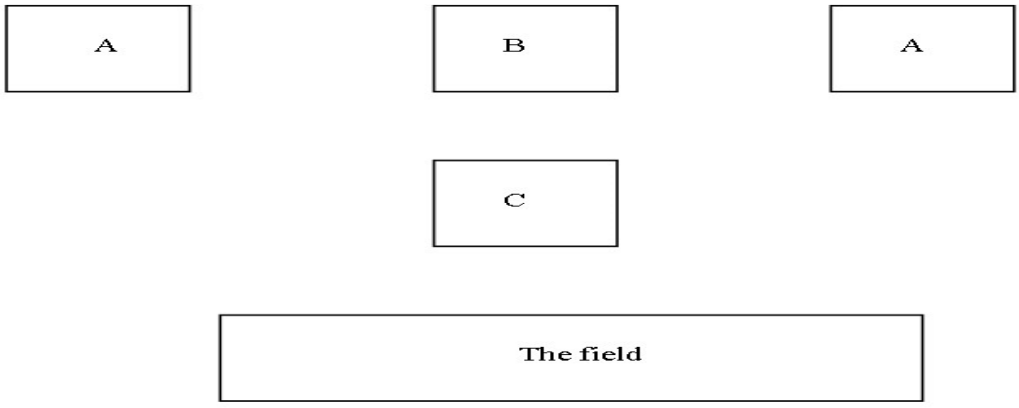
24.(a) Identify the fungal disease indicated above **(½ mk)**

(b) State the causal organism of the disease identified above **(1mk)**

(c) State **two** symptoms of the disease above **(lmk)**

(d) State **one** control measure for the disease in the control field **(lmk)**

25. The illustration below shows a four —heap system of making a compost manure. Study it and answer the question that follow.



(i) By use an arrow show how the decomposing materials should be transferred from one heap to another till the manure is applied in the field **(1mk)**

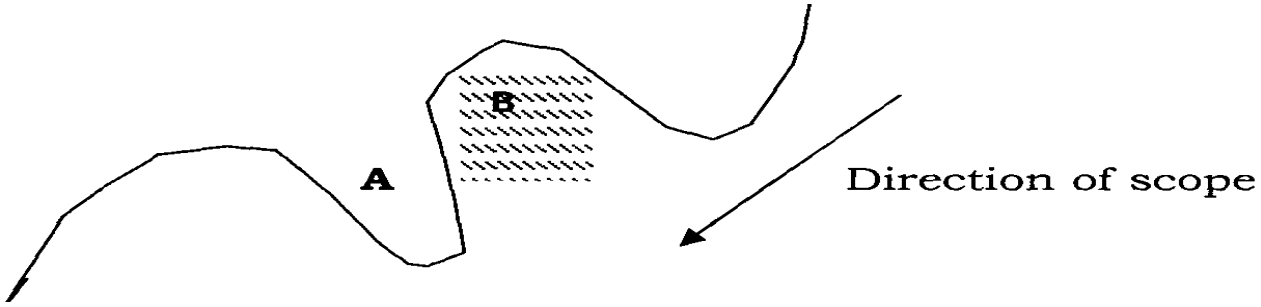
(ii) How long does the material take to be ready for application in the field as manure **(½ mk)**

(iii) Give **one** reason for turning the material in the heap regularly **(½ mk)**

(iv) Give **one** reason why it is necessary to sprinkle water on the heap **(½ mk)**

(v) Outline **two** characteristics of plants used for green manuring **(1mk)**

26. Below is a diagram of a narrow based terrace .Study it carefully and answer the questions that follow.



(i) Label part A and B **(lmk)**

A:

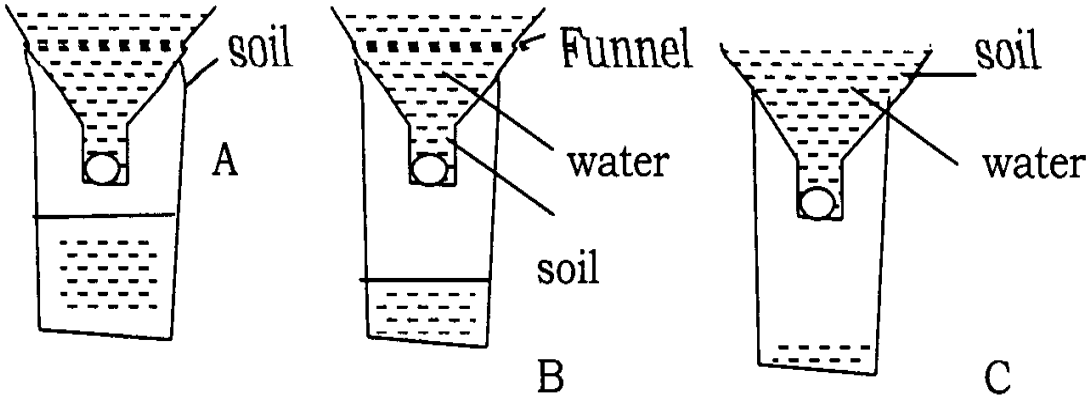
B:

(i) Name the practice carried to B immediately the terrace is constructed **(½ mk)**

(ii) State the maintenance practices carried to part A **(1mk)**

(iv) State **two** ways terraces conserve soil and water **(1mk)**

27. The diagram below shows an experiment set up using different soils type A,B and C. The observation is made after 24 hours



(a) State what the experiment was designed to study **(1mk)**

(b) Name the soil type labeled A,B and C **(1 ½ mks)**

(c) State **three** ways in which soil structure influences crop production **(1 ½ mks)**

SECTION C(40 MARKS)

Answer any two questions in this section in the spaces provided after question 30

28. **(a)** Describe grass pasture establishment using seeds starting from land preparation to time ready for harvesting **(10mks)**

(b) Discuss five qualities of a good silage **(5mks)**

(c) Briefly describe problems facing farmers when marketing agricultural products **(5mks)**

29. **(a)** Outline the factors necessary for proper functioning of co-orperatives **(4mks)**

(b) Discuss the advantages and disadvantages of overhead irrigation **(8mks)**

(c) Outline the safety measures in the use of chemicals to minimize environmental Pollution **(8mks)**

30. **(a)** Describe the production of beans under the following sub-topics

(i) Planting **(3mks)**

(ii) Field management practices **(5mks)**

(iii) Post harvest practices **(4mks)**

(b) List various methods of harvesting water in the farm **(5mks)**

(c) Explain how farmers adjust to risks and uncertainties in the farm **(3mks)**

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TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 4 PAPER 2

2 HOURS

NAME…… INDEX NO……..….

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B	19 – 24	20	
C	25 - 27	40	
		TOTAL SCORE	

SECTION B (30marks)

Answer all questions in this section in the spaces provided.

1. **(a)** What is a notifiable disease **(1mk)**

(b) Name two notifiable diseases of cattle **(1mk)**

2. Give four faults in the eggs that are detected during egg candling **(2mks)**

3. Give two components of the water cooling systems **(1mk)**

4. (a) Give two roles of litter in a deep litter poultry house **(1mk)**

(b) State one role of footbath in a poultry house **(½ mk)**

5. Mention four advantages of embryo transplant **(2mks)**

6. Give functional difference between the following tools **(2mks)**

(a) Stock and die and pipe cutter

(b) Ball pein hammer and claw hammer

7. State four features of an ideal calf pen **(2mks)**

8. Explain the meaning of the following terms **(2mks)**

(a) Starch equivalent (S.E.)

(b) Crude fibre (C.F)

9. State three methods of restraining cattle **(1½ mk)**

10. List four structural requirements of a grain store **(2mks)**

11. Name two types of mowers a farmer can use in the farm **(lmk)**

12. Name the dairy breed of cattle which **(1mk)**

(a) Produces the highest yield of milk

(b) Produces milk with the highest butterfat content

13. State four pre-disposing factors of mastitis **(2mks)**

14. Name any two hormones associated with milk let-down in cattle **(1mk)**

15. Write down four factors considered when computing a ration for livestock on the farm **(2mks)**

16. State two ways in which digestion of food in pigs differs from that in Ruminants **(2mks)**

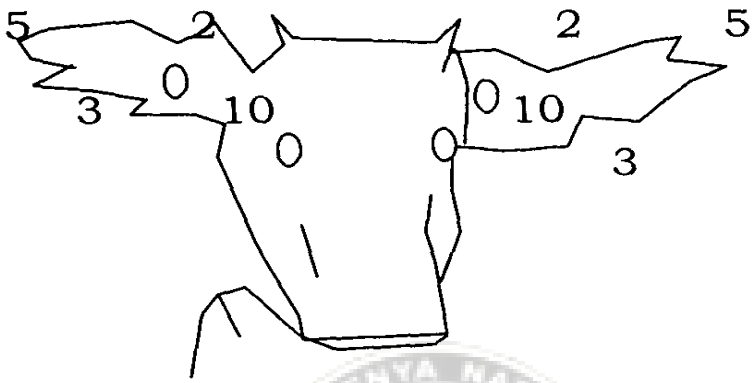
17. State two conditions which would make it necessary to feed bees **(lmk)**

18. State four disadvantages of natural mating as a method of breeding in dairy cattle management (2mks)

SECTION B (2OMKS)

Answer all questions in this section in the spaces provided

19. The diagram below illustrates a method of identification in livestock production. Use it to answer the questions that follow



(i) Name the type of identification illustrated above **(½ mk)**

(ii) Give the identification number of the animal illustrated in the diagram above **(lmk)**

(iii) Using diagrams , illustrate how you can identify animal number 24 and 36 using the above **(2mks)**

20. The diagram below illustrates livestock deficiency diseases. Study the diagram and answer the questions that follow.



(a) Identify

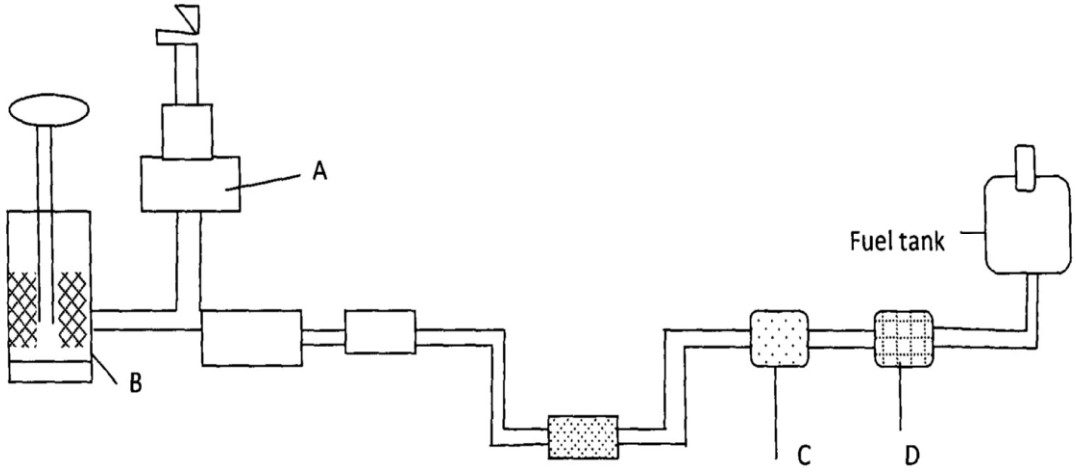
(i) The diseases **(½ mk)**

(ii) The deficient nutrient **(½ mk)**

(b) (i) Apart from head refraction, state two other symptoms of the deficiency disease **(2mks)**

(c) State one role of the nutrient named in a (i) above **(1mk)**

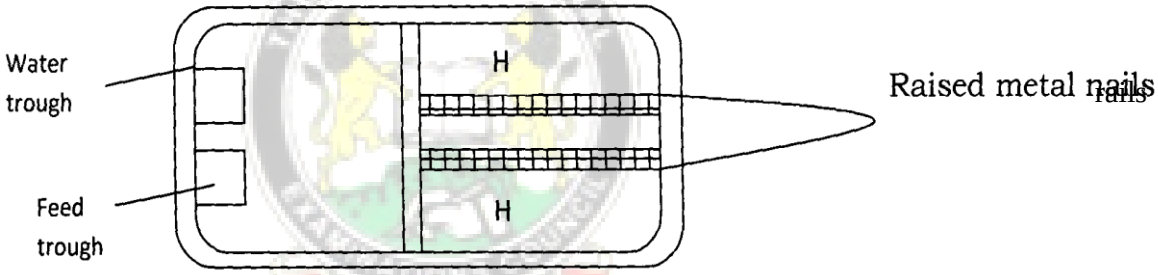
21. (a) Below is a diagram showing a petrol engine fuel system. study it carefully and answer the questions that follow



(a) Identify parts labeled A, B and D **(1½ mk)**

(b) State the functions of the parts labeled B, C and D **(1½ mk)**

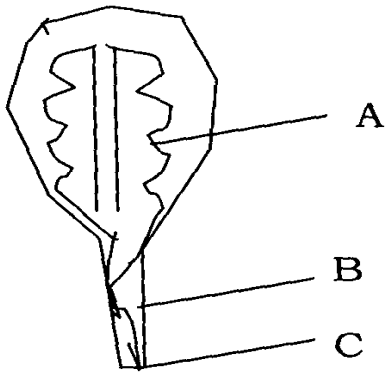
22. Study the ground plan of a pig forrowing pen, then answer the questions that follow



(a) What is the use of metal rails **(1mk)**

(b) Give one use of the area labeled H **(1mk)**

23. Study the livestock parasite below and answer the questions that follow

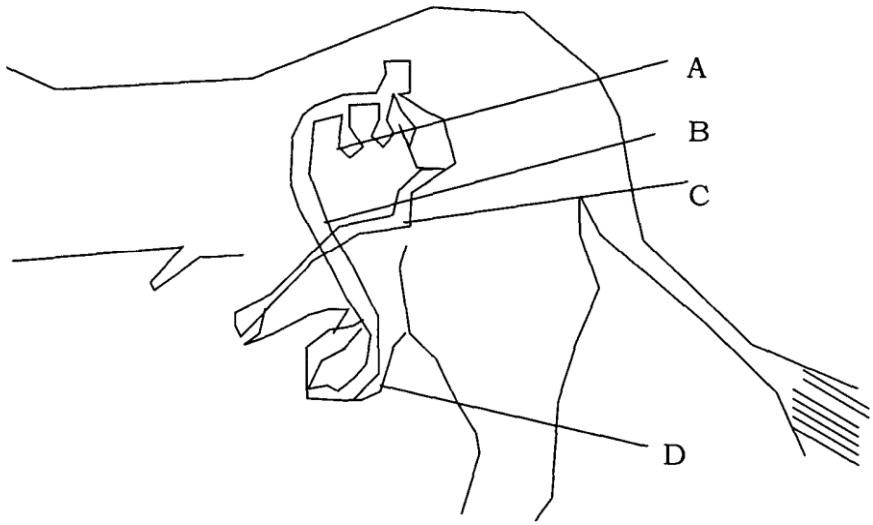


(a) **(i)** Identify the parasite

(ii) Name part of the parasite labeled A, B and C **(1½ mks)**

(b) State two control measures of the parasite **(2mks)**

24. The diagram below shows the reproductive system of a bull



(a) Name the parts labeled A, B and D **(1½ mks)**

(b) State the function of each of the parts labelled A and D **(2mks)**

SECTION C (40 mks)

Answer any two questions from this section in the spaces provided after question 27

25. **(a)** Discuss Foot-rot under the following sub-headings

(i) Causal organism **(lmk)**

(ii) Predisposing factors **(3mks)**

(iii) Symptoms of ultacic **(6mks)**

(iv) Control measures **(5mks)**

(b) Give reasons why colostrum is fed to calf in the 1st- 6th day after parturition **(5mks)**

26. **(a)** Discuss the factors that influence output by a draught animal **(5mks)**

(a) Describe procedure of harvesting honey in a Kenya Top bar hive **(10mks)**

(b) Describe five method used in fish preservation **(5mks)**

27. **(a)** Describe components of a spring race **(7mks)**

(b) Describe the management of pigs immediately after furrowing upto weaning of Piglets **(10 mks)**

(c) State three advantages of rearing birds through a battery cage system **(3mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 5 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……...

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FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 16	30	
B	17 – 20	20	
C	21 - 23	40	
		TOTAL SCORE	

SECTION A (30 MRKS)

Answer all question in this section in the space provided

1. Differentiate between olericulture and pomoculture as used in crop production . **(1mrk)**

2. List the physical weathering agents in soil formation process **(1 ½ mrks)**

3. Give four method of farming **(2mrks)**

4. Give two examples for each of the following types of cost incurred in broiler production .

a) Variable cost **(2 marks)**

b) fixed cost **(2 marks)**

5. Give four advantages of crop rotation . **(2mrk)**

6. State four factors that that should be considered when classifying crop pest **(2mrks)**

7. Give three reasons why a water logged soil is unsuitable for most crops **(1 ½)**

8. Give four advantages of tissue culture **(2mrks)**

9. Outline four observable indictors of economic development of a nation **(2mrks)**

10. Outline four indicators of well decomposed manure **(1 ½)**

11. Give two conditions where opportunity cost does not exist **(2mrks)**

12. Give four management practice that promote high herbage yields in pasture production **(2mk**

13. Give three reasons why primary cultivation should be done early before the onset of the rains **(1 ½)**

14. Give two examples of farm records that are general in nature . **(1mrk)**

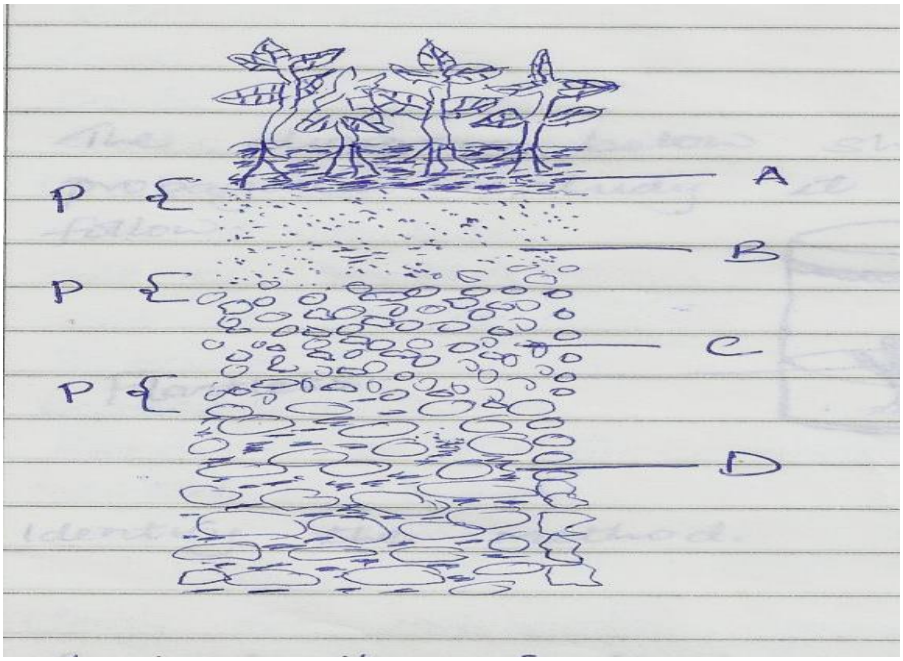
15. Give four role of nitrogen in plants **(2mrks)**

16. Give four benefits of possessing a land title deed **(2mrks)**

SECTION B (20 MRKS)

Answer all the questions in this section in the spaces provided

17. The diagram below illustrates a feature observed after digging the soil several metres deep Study the diagram carefully and answer the question that follow



a) Identify the feature that the diagram above represents in the study of soil **(1mrk)**

b) What is the name given to the part labeled p **(1mrk)**

c) Give a reason why part b is also reffered to as layer of accumulation **(1mrk)**

d) State two ways in which the knowledge of the above feature would be of benefit to farmer **(2mrks)**

18.The diagram below shows a method of crop propagation .Study it and answer the questions that follow



a) Identify the method **(1mrk)**

b Name two crops that can be propagated using this method**.** **(1mrk)**

c. Give three ingredients used when preparing the tissue culture**.** **(1 ½)**

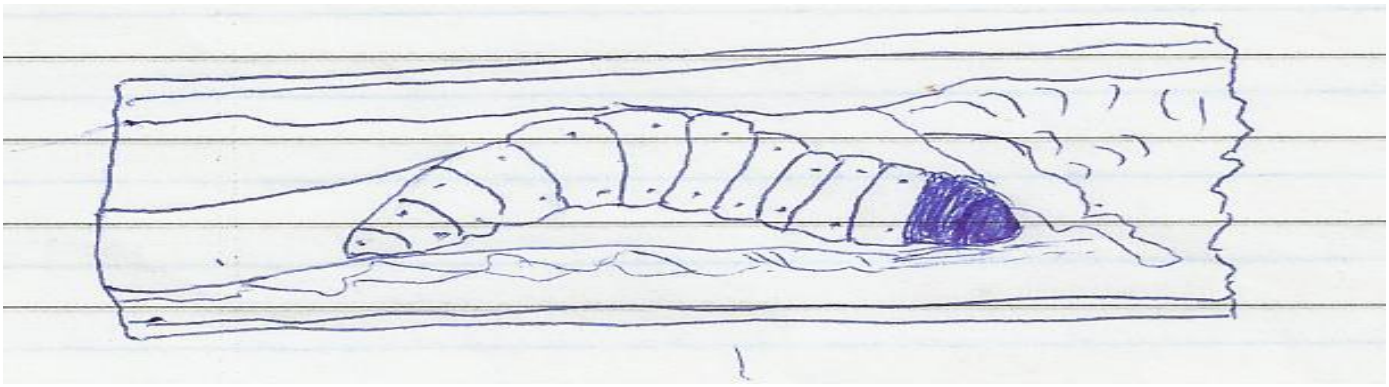
19.The following information was obtained from the records of Mr Juma's farm for the year ended on 31st march 2011

Particulars	**kshs**
Opening Valuation	100,000
Calves	72,000
Hired Labour	21,000
Sales of milk	13,000
Sales of cereals	33,000
Rent	9,000
Feed	5,300
Seed	1,700
Fertilizers	4,700
Sales of Vegetables	9,300
Sales of poultry	1,800
Sales of fruits	700
Pesticides	1,250
Depreciation	650
Repair and Maintenance	950
Interest on loans	200
Closing Valuation	9,0000

a) using the information given above , prepare a profit and loss account for Mr Juma's farm for the year ended 31st March **(7mrks)**

b) Giving a reason, State whether Mr. Juma's farm made a profit or loss **(½ mark)**

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



a) Indentify the pest **(1/2)**

b) Apart from maize, name another crop attacked by the pest named above **(½ mark)**

c) Give three cultural measures that can be applied to control the pest **(3mrks)**

SECTION C (40MARKS)

Answer any two questions in this section in the spaces provided

21a) Describe six advantages of rotational grazing **(6mrks)**

c) Explain eight ways in which soil fertility can be maintained **(8mrks)**

d) Explain six factors considered when drawing a farm plan **(6mrks)**

22a) Explain the factors that influence the type of irrigation to be used in a farm **(8mrks)**

d) Explain six reasons for pruning coffee**.** **(6mrks)**

e) Describe 6 ways in which lab our productivity can be improved on a farm **(6mrks)**

23a) Describe five importance of agro -forestry in soil and water conservation **(6mrks)**

b) Describe the procedure of silage making **(10mrks)**

c) Describe five effect of over application of nitrogenous fertilizer **(5mrks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 5 PAPER 2

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

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Instructions to Candidates.

a) *Write your name & Index Number in the spaces provided.*

b) *Sign and write the date of Examination in the spaces provided above.*

c) *This paper consists of three sections **A,B** and **C***

d) *Answer **ALL** the questions in Section **A** and **B** and Answer two questions from Section **C.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 16	30	
B	17 – 20	20	
C	21 - 23	40	
		TOTAL SCORE	

SECTION A 30MRKS

Answer all the questions in this sections in the spaces provided

1) Name the most appropriate tools used in the following operations

- **i.** a) Removing metal chippings in file **(1mrk)**
- **ii.** b) Cutting wood along grains **(1mrk)**
- **iii.** Branding **(1mrks)**

2) State four characteristic of Boran cattle **(2mrks)**

3) State two functions of a useful bacteria in livestock production **(1mrk)**

4) Name four function of lipid in an animal body **(2mrks)**

5) State two ways of reducing friction in moving part of farm tool **(1mrk)**

6) Outline four types of fence that can be used in mixed farm **(2mrks)**

7) Name three methods of out breeding in livestock production **(1 ½ marks)**

8) Give two reasons for tailing in sheep production **(1mrk)**

9) Name any five internal parts of cow's udder **(2 ½ marks)**

10) Give five ways of transmitting livestock diseases **(2 ½ marks)**

11) Give four features of improved grain bin **(2mrks)**

12) Give three types of calving complications **(1 ½ mrks)**

13) State four advantages of zero grazing as a grazing system **(2mrks)**

14) State two functions of a queen bee in a colony **(1mrk)**

15) Name four symptoms of anaplasmasis in livestock **(2mrks**

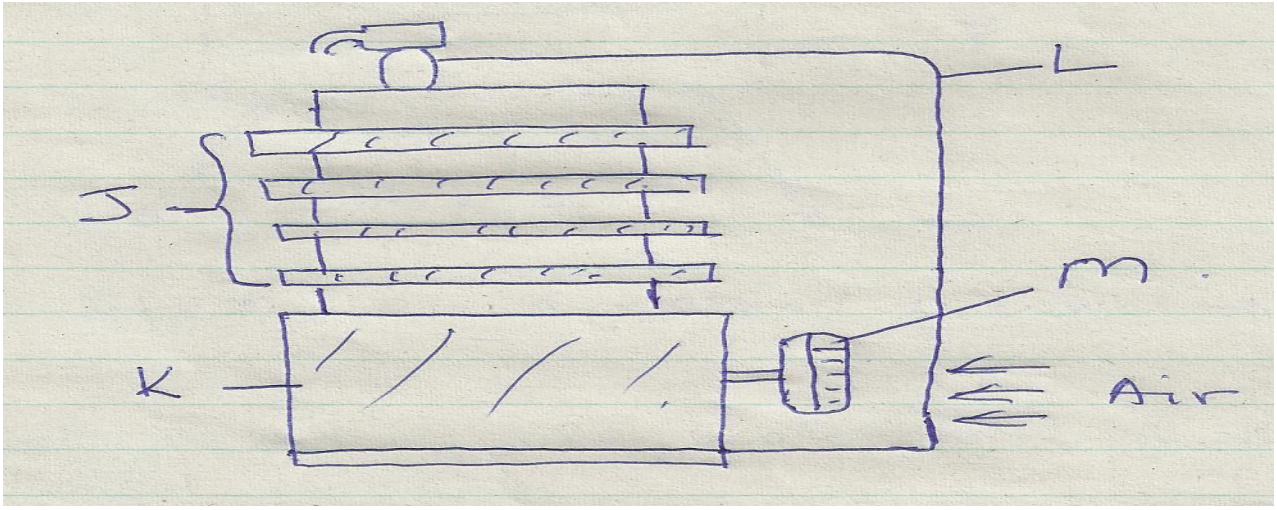
16) What do you understand by the following terms as used I animal production .

- **i.** Coponisation **(1mrk)**
- **ii.** Bullock **(1mrk)**
- **iii.** Epistasis **(1mrk)**

SECTION B (20Mrks)

Answer all the questions in the spaces provided

17) Below is a diagram of a cooling system .Study it and answer the questions that follow



a. Identify the type of cooling system illustrated **(1mrk)**

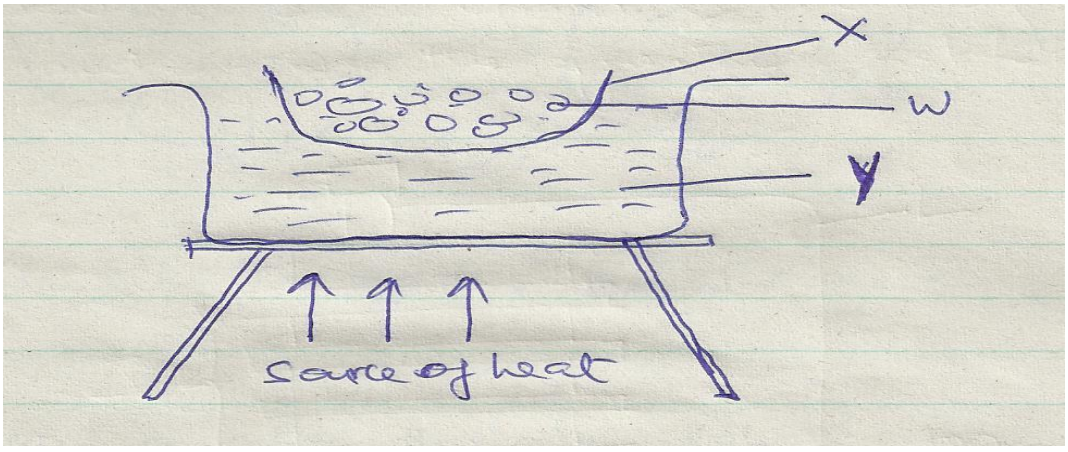
b . Name parts labelled J, K , L and M **(2mrks)**

c. Name two problems associated with the type of cooling system illustrated above **(2mrks)**

(i)

(ii)

18. Below is an illustration of a method of extracting honey from combs .Study the diagram and answer the question that follow .



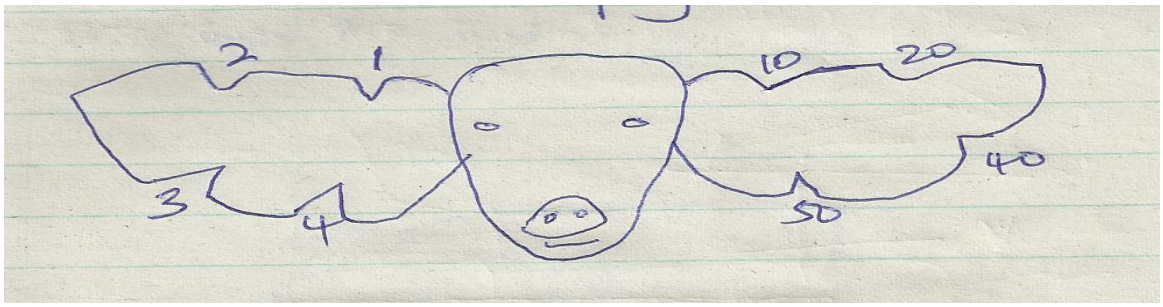
a) Indentify the above method of extracting honey **(1mrk)**

b) Give a reason why container x should not be heated directly **(1mrk**

c) Name the parts labeled w and y **(2mrks)**

d) Besides the above method ,State one other method of extracting honey **(1mrk)**

19. The diagram below shows a certain practice carried out on pig



a) Identify the practice illustrated above **(1mrk)**

b) Draw another illustration depicting pig number 37 **(1mrk)**

c) Name the tool used to carry out the practice illustrated above **(1mrk)**

d) State two other method of indentifying piglet **(2mrks)**

20 . Below an illustration of a farm operation .Study it carefully and answer the question that follow.



a) Identify the activity being carried out **(1mrk)**

b) Give one other activity carried on the animal before the above operation is carried out **(1mrk)**

c) Outline the procedure of carrying out the above operation **(3mrks)**

SECTION C

Answer any two questions in the space provided

21. Outline management practice carried out in a fish pond to ensure maximum harvest of fish **(7mrk)**

b) Discuss the importance of farm mechanization **(6mrks)**

c) Discuss the short term maintenance practices carried out on a tractor (**7 marks)**

22. (a) Explain the feature of a piggery unit **(10mrks)**

(b) Explain the factor that influence the work output of a draught animal **(10mrks)**

23. a) Outline various method of controlling ticks **(10 mrks)**

18. Describe the management of growers up to the point of lay **(10mrks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 6 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……...

Instructions to Candidates.

a) *Write your name & Index Number in the spaces provided.*

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FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 18	30	
B	19 – 22	20	
C	23 - 25	40	
		TOTAL SCORE	

SECTION A: (30 MARKS)

Answer ALL questions in this section in the spaces provided.

1. State **four** reasons for planting potatoes in a ridged seedbed. **(2 marks)**

2. Name **two** types of inventory records. **(1 mark)**

3. State **two** conditions under which seeds are seeded at a high seed rate. **(2 marks)**

4. Mr. Ngare was advised to apply 150kg CAN/ha while topdressing the maize crop. Calculate the amount of nitrogen applied per hectare if CAN contains 20% nitrogen. **(2 marks)**

5. Name **two** propagation materials used in the establishment of pineapples. **(1 mark)**

6. State **four** reasons for pruning. **(2 marks)**

7. Give a term used to mean a market condition where:-

(i) there is a sole seller _____ **(1 mark)**

(ii) there is a sole buyer _____ **(1 mark)**

8. Outline **four** advantages of mixed farming. **(2 marks)**

9. What is organic farming? **(1 mark)**

10. Outline **four** information contained in a title deed. **(2 marks)**

11. State **three** problems facing Agriculture in Kenya. **(1½ marks)**

12. State **four** factors that determine the quality of tomatoes. **(2 marks)**

13. Give **four** characteristics of large scale farming system. **(2 marks)**

14. What are the reasons for forage conservation? **(2 marks)**

15. State the **three** aspects of light that affect crop production. **(1½ marks)**

16. Differentiate between a partial budget and a complete budget. **(2 marks)**

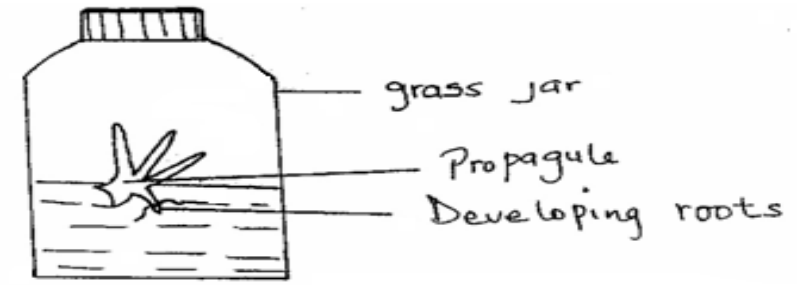
17. State **two** problems that may be brought by a hard pan. **(1 mark)**

18. What are the reasons for innoculating legume seeds before planting? **(1 mark)**

SECTION B: (20 MARKS)

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

19. The diagram **below** illustrates a method of crop propagation.

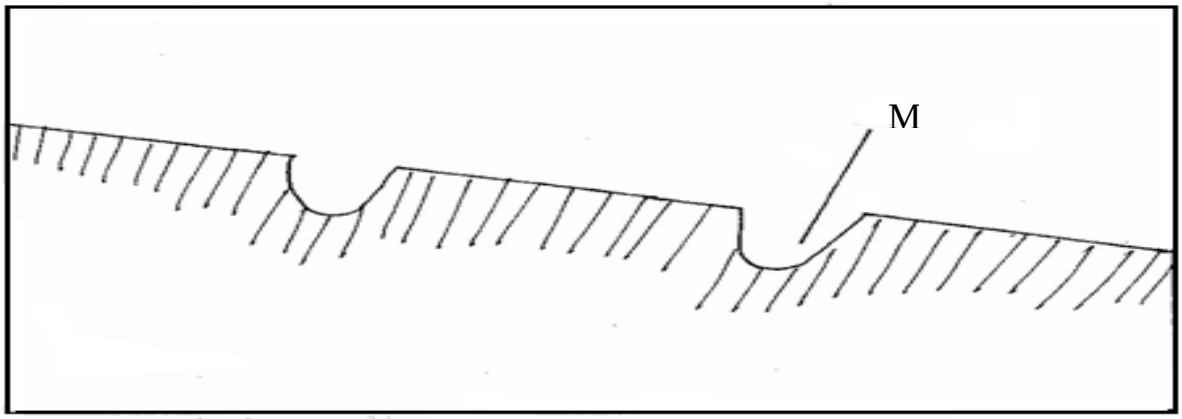


(a) Identify the method of propagation. **(1 mark)**

(b) Name a common crop propagated through the method. **(1 mark)**

(c) Name **three** advantages of this method. **(3 marks)**

20. The diagram **below** is a type of a terrace.

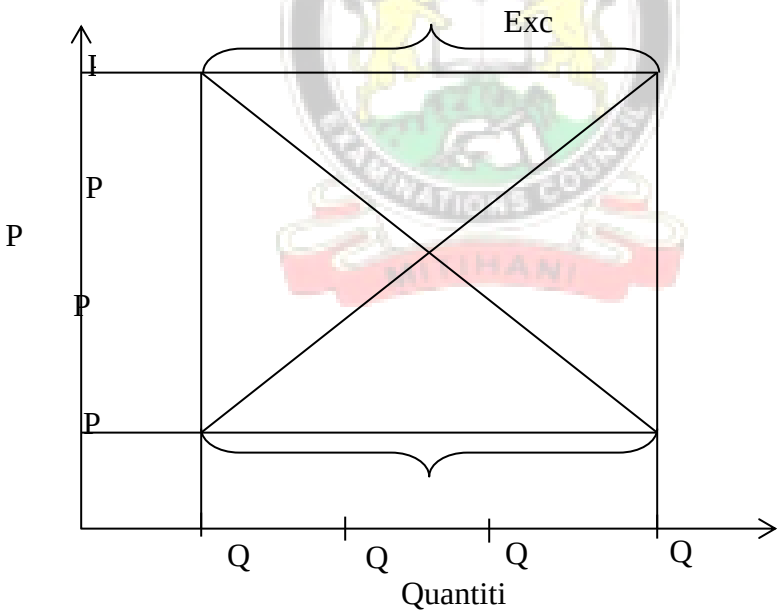


(a) Name the type of terrace illustrated above. **(1 mark)**

(b) Give the name of the part labeled **M** in the diagram. **(1 mark)**

(c) State the limitations of this terrace. **(1 mark)**

21. **Below** is a graph showing the relationship between Demand and Supply in price determination.



(a) Name the curve **M** and **N**. **(1 mark)**

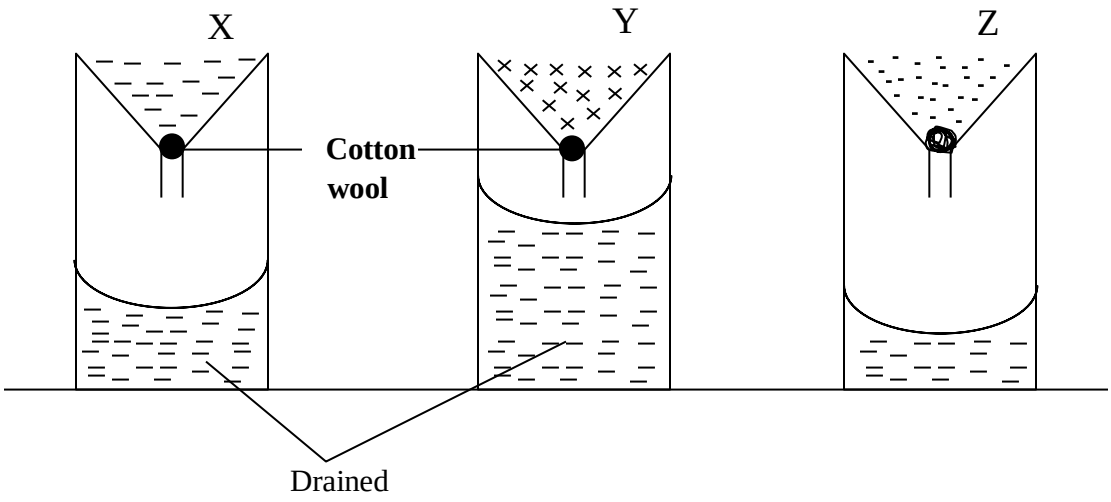
M

N

(b) State the name given to the point where the **two** curves **M** and **N** intersect. **(1 mark)**

(c) Give **two** reasons why there is excess supply above P_4. **(2 marks)**

22. The experiment **below** was set to compare the porosity and water holding capacity of three different types of soils.



(i) Identify the soils in each of the following funnels labeled. **(1½ marks)**

X

Y

Z

(ii) Which of the types of soil can be said to have the highest porosity rate? **(½ mark)**

(iii) Give reasons for your answers in **(ii) above**. **(2 marks)**

(iv) Which type of soil would be suitable for planting paddy rice? **(1 mark)**

SECTION C: (40 MARKS)

*Answer any **two** questions from this section in the spaces provided after the section.*

23. **(a)**Discuss the production of maize for grain production from land preparation to harvesting.

(20 marks)

24. **(a)** Outline **six** benefits for practicing minimum tillage. **(6 marks)**

(b) Give the **main** reasons for practicing crop rotation. **(6 marks)**

(c) Outline the benefits of primary cultivation. **(4 marks)**

(d) Outline **four** importance of organic matter in the soil. **(4 marks)**

25. **(a)**Describe **five** factors which influence Demand of a commodity in a perfect market situation.

(10 marks)

(b) State and explain **five** marketing functions. **(10 marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 6 PAPER 2

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……...

Instructions to Candidates.

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FOR EXAMINER'S USE ONLY

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A	1 – 19	30	
B	20 – 23	20	
C	24 - 26	40	
		TOTAL SCORE	

SECTION A: (30 MARKS)

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

1. State **three** ways used to improve production of indigenous cattle. **(1½ marks)**

2. List **four** factors considered when formulating a livestock ration. **(2 marks)**

3. List **two** methods of identifying pigs. **(1 mark)**

4. State **two** reasons why walls of a dairy shed should be white washed instead of painting. **(1 mark)**

5. Give **two** reasons for applying oil and grease on a rotary mower. **(1 mark)**

6. Differentiate between cropping and harvesting in fish farming. **(1 mark)**

7. **(a)** Name **two** common diseases that attack bees in a colony. **(1 mark)**

(b) Name the equipment used to make the bees less aggressive during harvesting of honey. **(½ mark)**

8. **(a)** Give **two** functions of Albumen in an egg. **(1 mark)**

(b) What leads to double yolk in egg formation? **(1 mark)**

9. Name **two** livestock diseases controlled through Artificial insemination. **(1 mark)**

10. **(a)** List **two** types of feed additives. **(1 mark)**

(b) Give **two** reasons why it is important to include additives in commercial feeds. **(1 mark)**

11. Name **four** symptoms of Gumboro disease in poultry production. **(2 marks)**

12. Name **four** light breeds of poultry. **(2 marks)**

13. Give **three** methods of harnessing tractor power. **(1½ mark)**

14. Give **four** factors which affect digestibility in livestock. **(2 marks)**

15. Give **four** reasons why breeding boar may be culled. **(2 marks)**

16. Give **four** factors considered when siting a milking parlour. **(2 marks)**

17. State **four** maintenance practices carried out on a wire fence. **(2 marks)**

18. List **four** functions of the rumen in the digestion of feed in ruminants. **(2 marks)**

19. State the use of each of the following parts in a cattle dip. **(2 marks)**

(i) Roof

(ii) Silt trap

(iii) Drainage race

(iv) Foot bath

SECTION B: (20 MARKS)

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

20. The diagram **below** represents conditions of the tyre



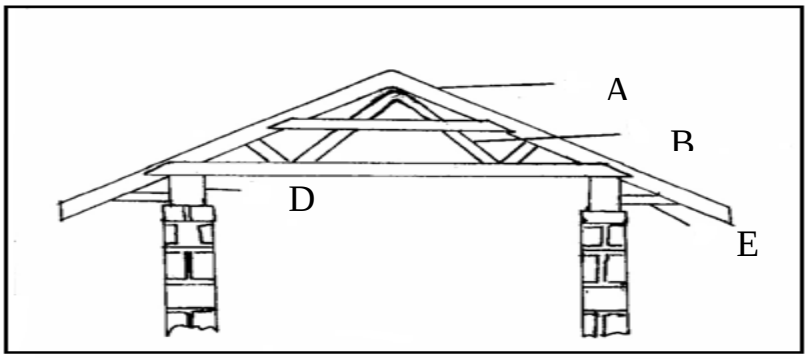
E F G

(a) Which diagram represent the correct pressure in a tractor tyre? **(1 mark)**

(b) Identify the mistakes with the other two tyres. **(2 marks)**

(c) Give the correct measures taken for each tyre mentioned in **(b) above**. **(2 marks)**

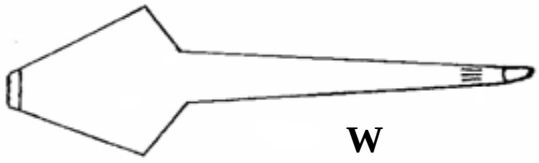
21. Study the diagram **below** of a farm structure.



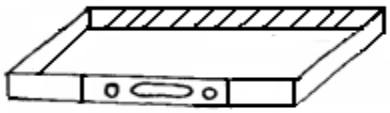
(a) Identify the structure **above**. **(1 mark)**

(b) Name the parts labeled **A**,**B,E,D** **(4 marks)**

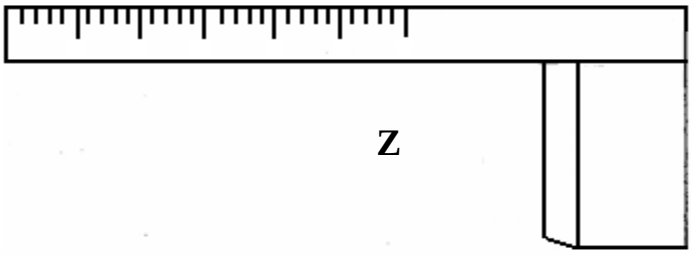
22. Study the tools **below** and answer the questions **below**.



W



X



Z

(a) Identify the tools. **(3 marks)**

W _____

X _____

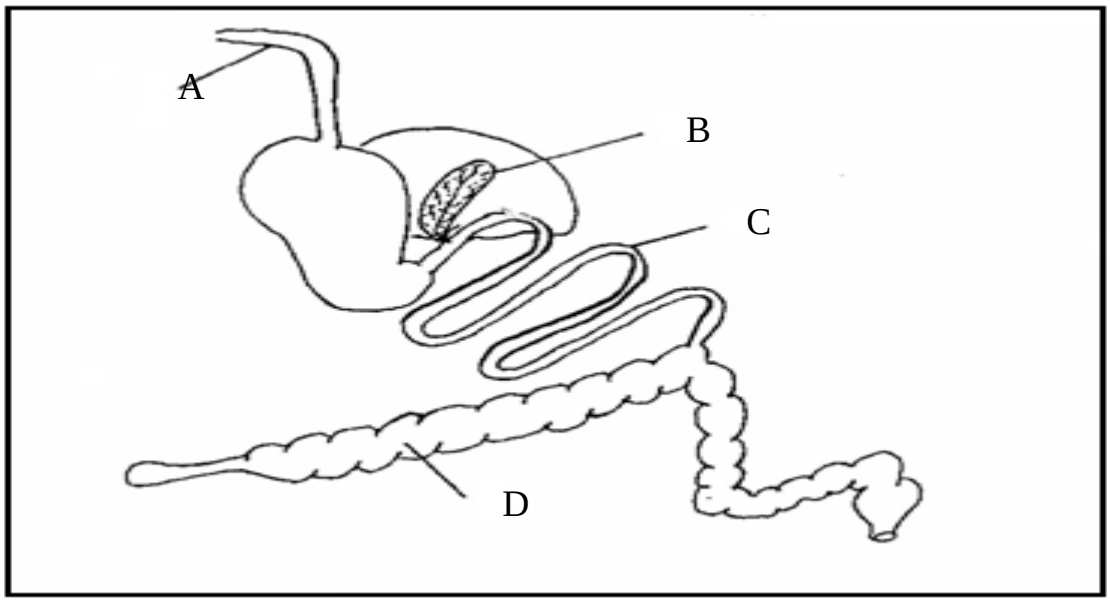
Z _____

(b) What are the functions of tools? **(2 marks)**

Z _____

X _____

23. Study the diagram **below** then answer the questions that follow.



(i) Name **one** farm animal which has the above digestive system. **(1 mark)**

(ii) Label the following parts. **(2 marks)**

A _____

B _____

(iii) Give the functions of each of the parts named: **(2 marks)**

C _____

D _____

SECTION C: (40 MARKS)

*Answer any **two** questions from this section in the spaces provided after the section.*

24. **(a)** State **four** reasons for breeding cattle. **(4 marks)**

(b) Explain **four** routine management practices carried out during rearing of dairy calves. **(8 marks)**

(c) State **five** reasons for swarming in bees. **(5 marks)**

(d) List **three** ways of controlling liver flukes in sheep. **(3 marks)**

25. **(a)** Discuss the disease Trypansomiasis under the following subheadings.

(i) Causal organism. **(1 mark)**

(ii) Animals attacked. **(1 mark)**

(iii) Mode of transmission. **(1 mark)**

(iv) Symptoms. **(2 marks)**

(v) Control **(3 marks)**

(b) Explain the measures used in controlling diseases in livestock. **(12 marks)**

26. **(a)** Give the differences between petrol engine and diesel engine. **(10 marks)**

(b) Describe the functions of the lubricating system in a tractor. **(5 marks)**

(c) Other than the lubricating systems name **five** other systems of a tractor. **(5 marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 7 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……...

Instructions to Candidates.

a) *Write your name & Index Number in the spaces provided.*

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FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 18	30	
B	19 – 21	20	
C	22 - 24	40	
		TOTAL SCORE	

SECTION A (30 MARKS)

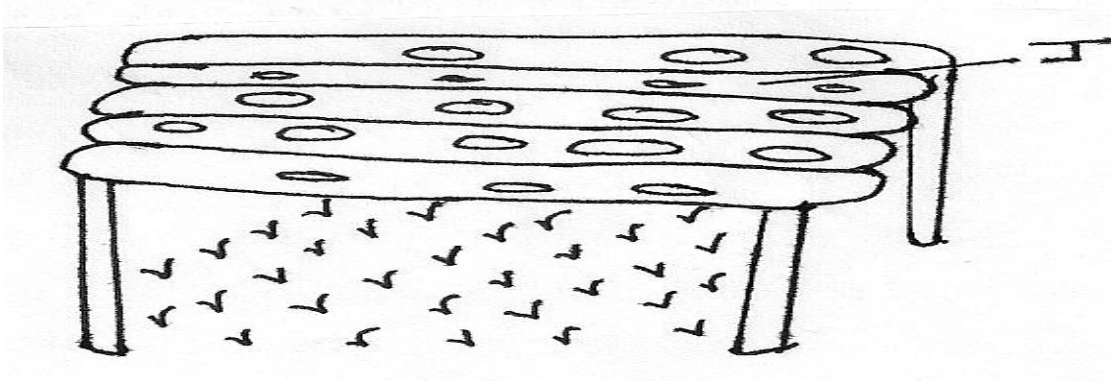
Answer ALL Questions in the Spaces Provided

1. State **two** ways by which wind affects the growth of crops. **(1mk)**
2. Name **three** types of capital used in Agriculture. **(1½mks)**
3. List **four** reasons for primary cultivation. **(2mks)**
4. Give **four** properties of soil that are influenced by its texture. **(2mks)**
5. State **two** reasons for drying grains before storage. **(1mk)**
6. List **four** methods of treating water for domestic use. **(2mks)**
7. State **four** ways by which plant nutrient may be lost from the soil. **(2mks)**
8. State **four** functions of nitrogen in crops. **(2mks)**
9. State **three** ways in which organic mulch helps to conserve water in the soil. **(1½mks)**
10. Give **four** advantages of proper stocking rate in pasture management. **(2mks)**
11. Name **three** methods of conserving forage. **(1½mks)**
12. State **four** factors that determine the spacing of an annual crop. **(2mks)**
13. List **four** types of records that a crop farmer keeps. **(2mks)**
14. Differentiate between variable inputs and fixed inputs. **(1mk)**
15. List **four** types of agencies and institutions involved in marketing of maize. **(2mks)**
16. Give the minimum number of people required to form a cooperative society. **(½mk)**
17. State **four** ways of improving productivity of labour. **(2mks)**
18. Name **five** disadvantages of planting seeds using broadcasting method. **(2½mks)**

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

19. (a) Below is a diagram of a nursery for raising tomato seedlings.



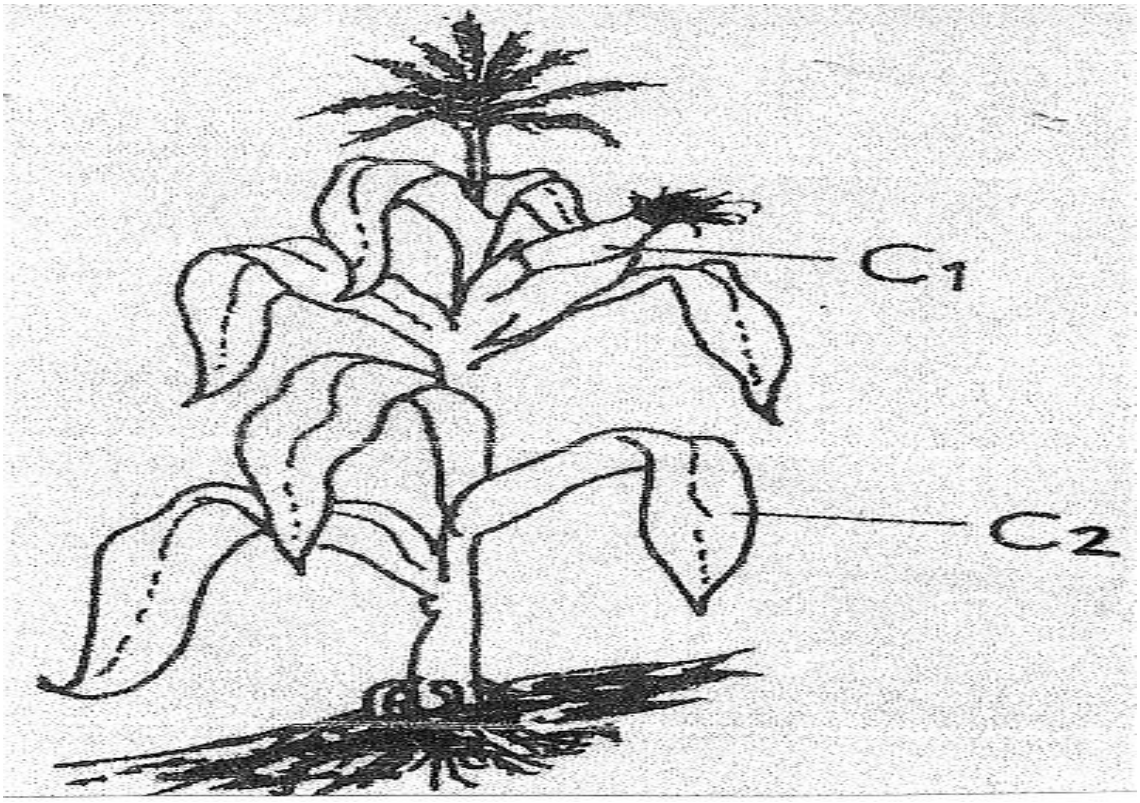
(i) Name the part labeled J. **(1mk)**

(ii) State **two** advantages of part labeled J. **(2mks)**

(iii) Give **three** management practices that should be carried on the nursery from the time seedlings emerge to the stage of transplanting. **(3mks)**

(iv) At what stage of growth should tomato seedling be transplanted? **(1mk)**

(b) Study the crop illustrated in the diagram below and answer the questions that follow.



(i) Name **two** insect pests which attack the part labeled C1, and **one** disease that attacks part labeled C2. **(3mks)**

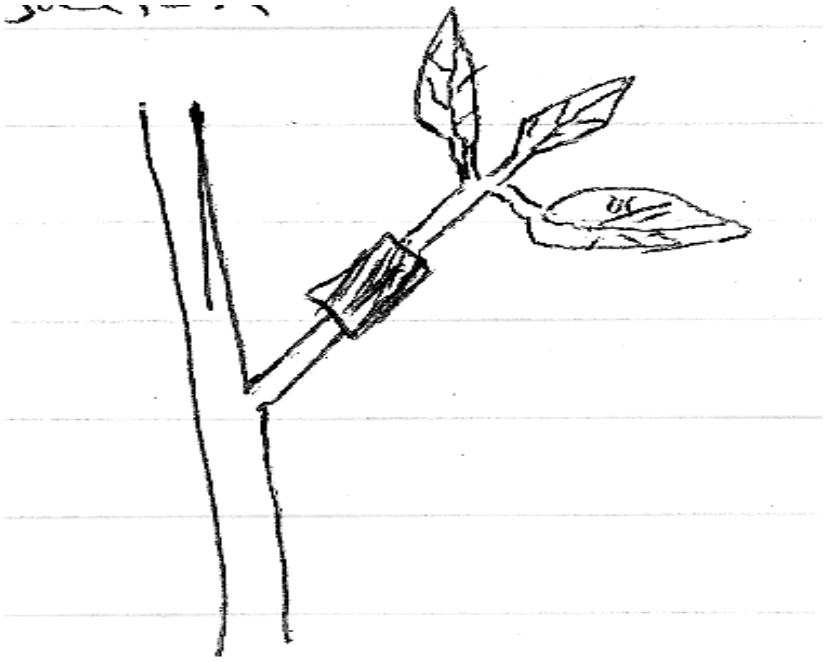
C1:……..

C2: …….

(ii) Give **one** reason why it is advisable to apply a straight nitrogenous fertilizer to the above crop at height of 30 – 45cm. **(1mk)**

(c) A member of Form 2 class was advised to apply a complete fertilizer 30:20:10 in tomato crop. State the percentage of K_2O in the complete fertilizer. **(1mk)**

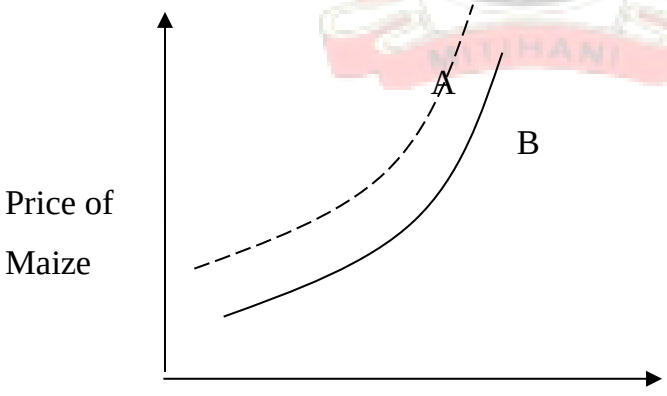
20. The diagram **below** shows a method of crop propagation.



(a) Identify the propagation method illustrated above. **(1mk)**

(b) List **three** ways of initiating faster root development in the propagation method illustrated above. **(2mks)**

21. The diagram **below** illustrates the law of supply in agricultural marketing. Study it and answer the questions that follow.



(a) Give a reason for the shape of the curve labeled **A**.

(b) If the price of the maize remains constant, explain **three** factors that can cause the curve to shift to **B** from **A**. **(3mks)**

SECTION C

Answer any two questions in the spaces provided

22. **(a)** Explain **five** ways by which farmers minimize grain loses in stores. **(10mks)**

(b) Describe field production of Napier grass under:-

(i) Planting **(5mks)**

(ii) Weed control **(5mks)**

23. **(a)** Explain **six** cultural methods to control crop diseases. **(12mks)**

(b) Describe **four** effects of land fragmentation and sub-division. **(8mks)**

24. **(a)** Explain **seven** advantages of budgeting. **(7mks)**

(b) State and explain **six** factors that should be considered when designing a Crop rotation programme. **(10mks)**

(c) Explain the disadvantages of sub-surface irrigation. **(3mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 7 PAPER 2

2 HOURS

NAME…… INDEX NO……..….

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FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 15	30	
B	16 – 18	20	
C	19 - 21	40	
		TOTAL SCORE	

SECTION A (30 MARKS)

Answer ALL Questions in the Spaces Provided

1. **(a)** Name a breed of sheep with a lambing percentage of above 125% and whose fleece may be inferior due to black features. **(½mk)**

(b) Name a goat breed which can be used for production of mohair. **(½mk)**

2. Differentiate between the following tools:

(a) Baslard file and rasp file. **(1mk)**

(b) Coping saw and hack saw.

3. List **two** equipment used in handling cattle during Agricultural exhibition. **(2mks)**

4. State **four** methods of maintaining good health in livestock. **(2mks)**

5. (a) State **four** signs of external parasite infestation. **(2mks)**

(b) State **four** non-chemical methods of controlling ticks. **(2mks)**

6. (a) State **four** characteristics of livestock roughage feedstuff. **(2mks)**

(b) Give **four** functions of proteins in an animal's body. **(2mks)**

7. (a) State **four** advantages of using corrugated iron sheets for roofing instead of asbestos. **(2mks)**

(b) Give **two** reasons for spreading a polythene paper in the slab of farm buildings. **(1mk)**

8. (a) State **four** roles played by engine oil in tractor engine. **(2mks)**

(b) State **four** practices through which a farmer would ensure that no engine knock occurs in a tractor. **(2mks)**

9. State **two** factors that influence the respiration rate in animals. **(1mk)**

10. State **four** practices that ensure maximum harvest of fish. **(2mks)**

11. State **four** reasons why farmers herd livestock. **(2mks)**

12. State **one** farm implement which can be used in both primary and secondary operations. **(½mk)**

13. Give a reason why Irish potatoes should not be fed to non-ruminants. **(½mk)**

14. (a) What is hybrid vigour? **(½mk)**

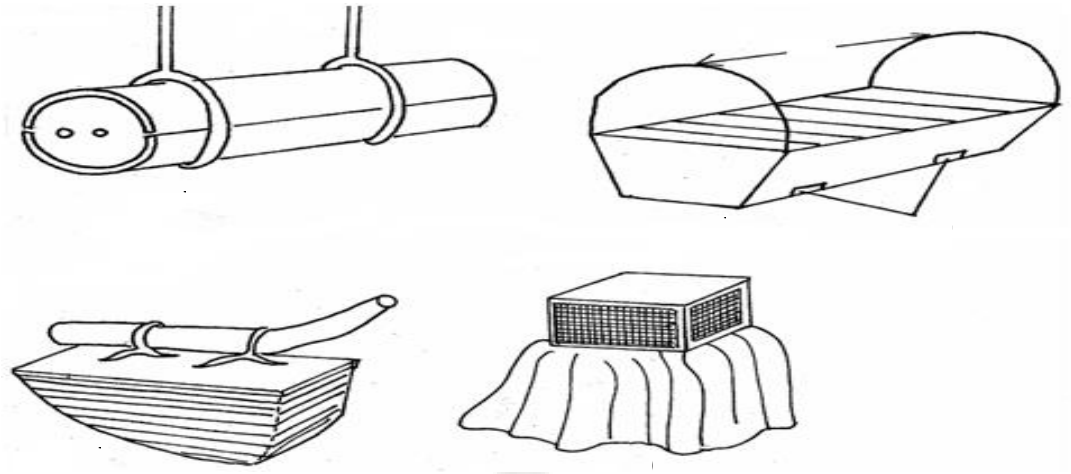
(b) Give **two** instances when hybrid vigour may be lost. **(1mk)**

15. State **three** reasons why farmers give milk to kids using artificial methods. **(1½mks)**

SECTION B (20 MARKS)

Answer all questions in the spaces provided in this section

16. Diagrams **M**, **N**, **P** and **Q** show some structures used in apiculture.
Use them to answer the questions that follow:



(a) Identify the structures labeled **M**, **N**, **P** and **Q**. **(2mks)**

M……

N……

P……

Q……

(b) State the uses of equipment **P** and **Q**. **(2mks)**

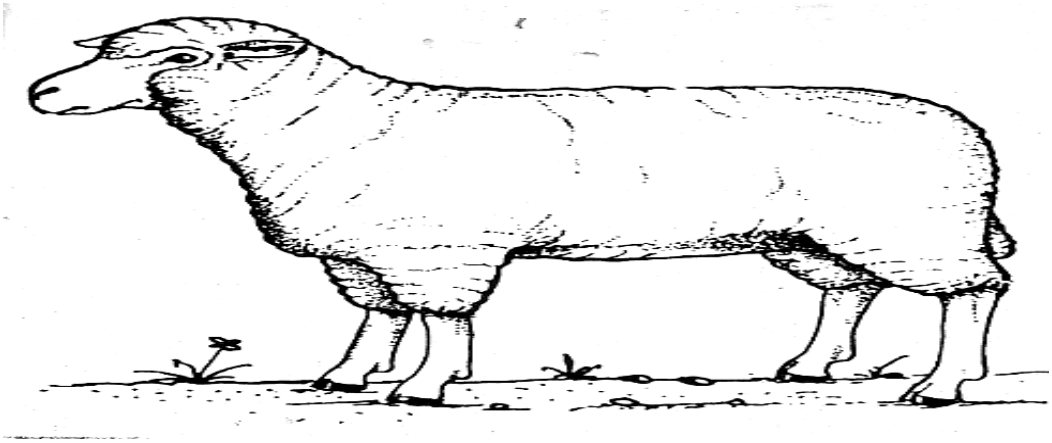
P……

Q……

(c) State **one** advantage structure **N** has over structure **M**. **(1mk)**

(d) State the uses of the parts labeled **1** and **2** on structure **N**. **(2mks)**

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

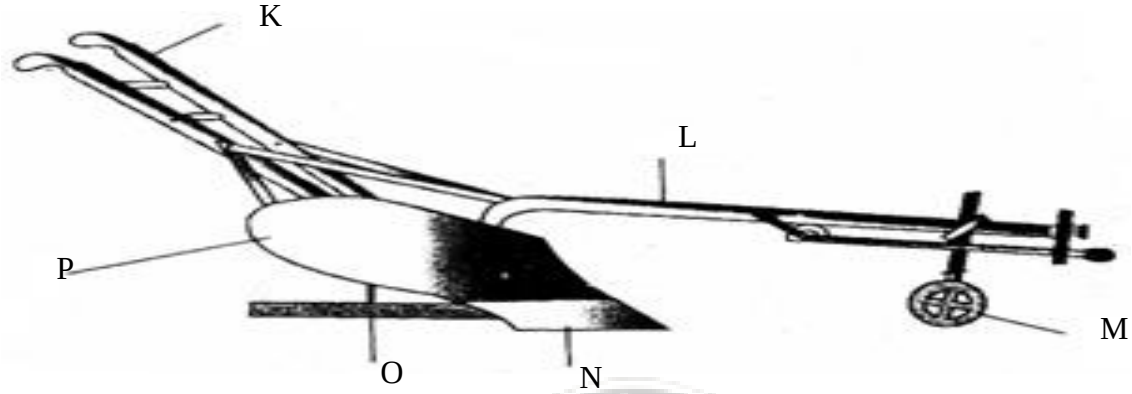


(a) Outline the reason for raddling. **(2mks)**

(b) Using letter **R**, indicate on the diagram, the site of ringing. **(1mk)**

(c) Using letter **C**, show the position of breeding chutes. **(1mk)**

18. Below is an illustration of a farm implement. Study it carefully and answer the questions that follow.



(a) Identify the farm implement. **(1mk)**

(b) Name the parts labeled **L**, **M**, **O** and **P**. **(4mks)**

L……

M……..

O……..

P……

(c) Give **one** function of the parts **K**, **M**, **N** and **P**. **(4mks)**

K……..

M…….

N…….

P……..

(d) Give the adjustment on the store implement to ensure deep ploughing with a wide slice. **(2mks)**

SECTION C

Answer any two questions in the spaces provided

19. Using appropriate illustration, describe the process of egg formation in a layer. **(20mks)**

(a) Describe hand milking in a dairy cow. **(12mks)**

(b) Explain the practices observed in clean milk production. **(8mks)**

20. (a) Discuss Pneumonia in calves under the following sub-headings:

(i) Predisposing factors. **(3mks)**

(ii) Symptoms **(5mks)**

(iii) Control measure **(3mks)**

(b) Name and describe features of an ideal calf pen. **(9mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 8 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

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C	22 - 24	40	
		TOTAL SCORE	

SECTION A [30 MARKS]

*Answer **ALL** the questions in the spaces provided.*

1. Give ***four*** methods of applying fertilizers to crops. **[2marks]**

2. State ***four*** beneficial biotic factors that influence agriculture. **[2marks]**

3. Give ***four*** branches of Agriculture. **[2marks]**

4. State ***four*** advantages of co-operative land tenure system. **[2marks]**

5. State ***four*** benefits of organic mulch in crop production. **[2marks]**

6. State ***four*** conditions under which shifting cultivation is practiced. **[2marks]**

7. Give ***four*** effects of mass wasting. **[2marks]**

8. Give ***four*** factors that affect the rooting of cuttings. **[2marks]**

9. Name ***four*** details that are included in a farm marketing record. **[2marks]**

10. Give ***four*** examples of product-product relationship in the management of agricultural enterprises. **[2marks]**

11. State ***three*** benefits of tissue culture in crop propagation. **[1.5 marks]**

12. Give ***two*** reasons for cutting back pyrethrum. **[1 mark]**

13. State ***three*** methods of classifying herbicides. **[1.5 marks]**

14. State ***four*** symptoms of viral diseases in crops. **[2 marks]**

15. Give ***four*** reasons for draining land as part of land reclamation. **[2 marks]**

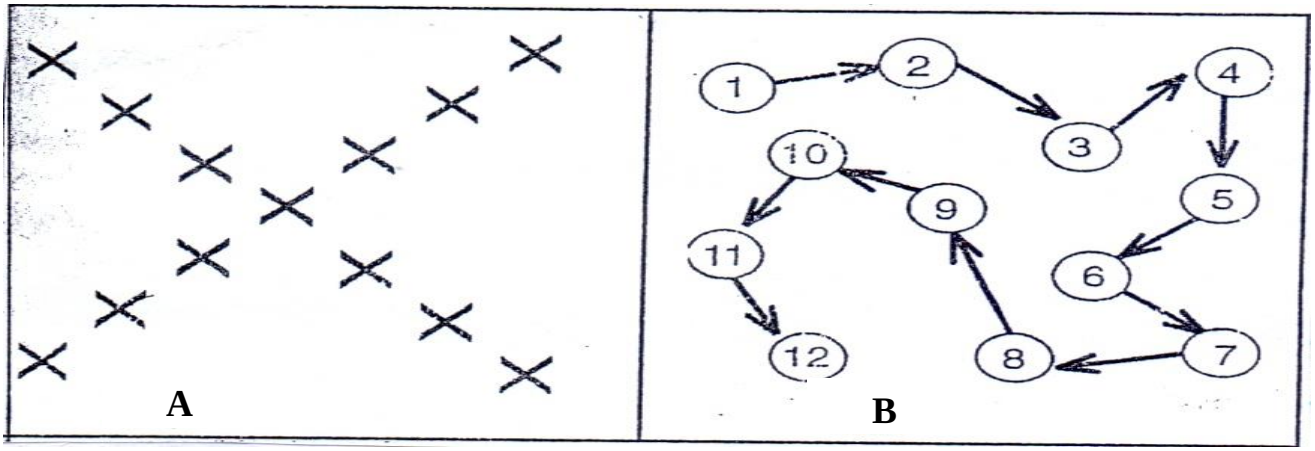
16. State ***two*** reasons for topping a pasture. **[1 mark]**

17. State ***two*** advantages of metal pipes over plastic pipes in piping water in the farm. **[1 mark]**

SECTION B [20 MARKS]

*Answer **ALL** the questions in the spaces provided.*

18. The following diagrams illustrate two methods of soil sampling .Study them and answer questions that follow .



[a] What do diagrams A and B represent? **[2 marks]**

A……

B……

[b] Describe the procedure of soil sampling. **[3 marks.]**

19. Study the following weeds and answer questions that follow .



[a] Give the identity of weeds J and K **[2 marks]**

J……

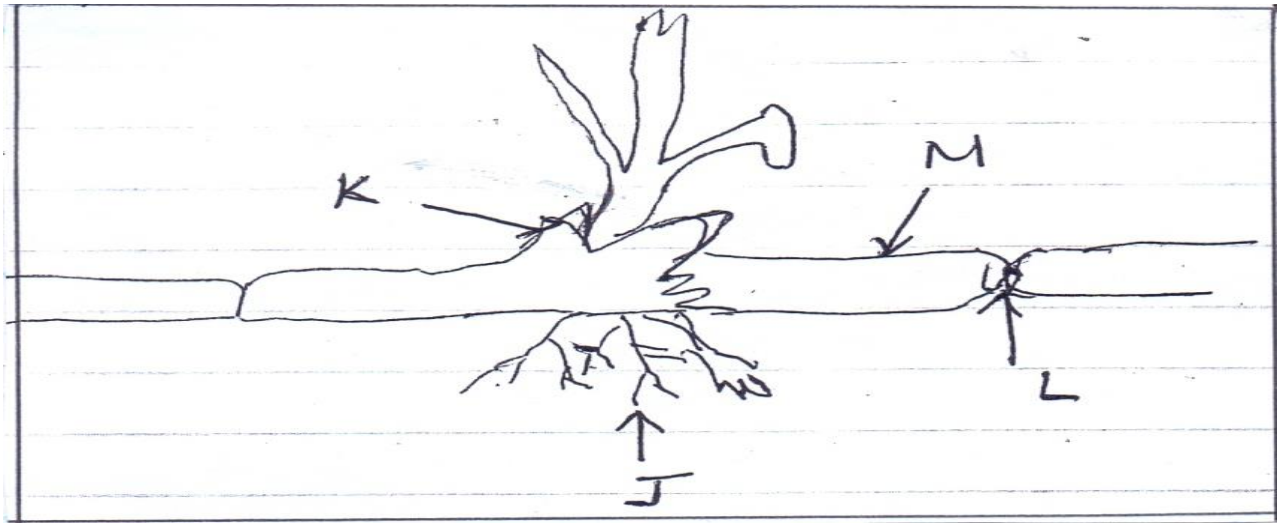
K……..

[b] What makes weed K difficult to control. **[1 mark]**

[c] Give the economic importance of weed J **[1 mark]**

[d] State ***one*** reason that makes weeds excellently adapted to various environments. **[1 mark]**

20. Study the diagram below of a planting material of sugar cane and answer questions that follow .



[a] Identify the parts **J , K , L** and **M**. **[2 marks]**

J…… K…….

L …… M…….

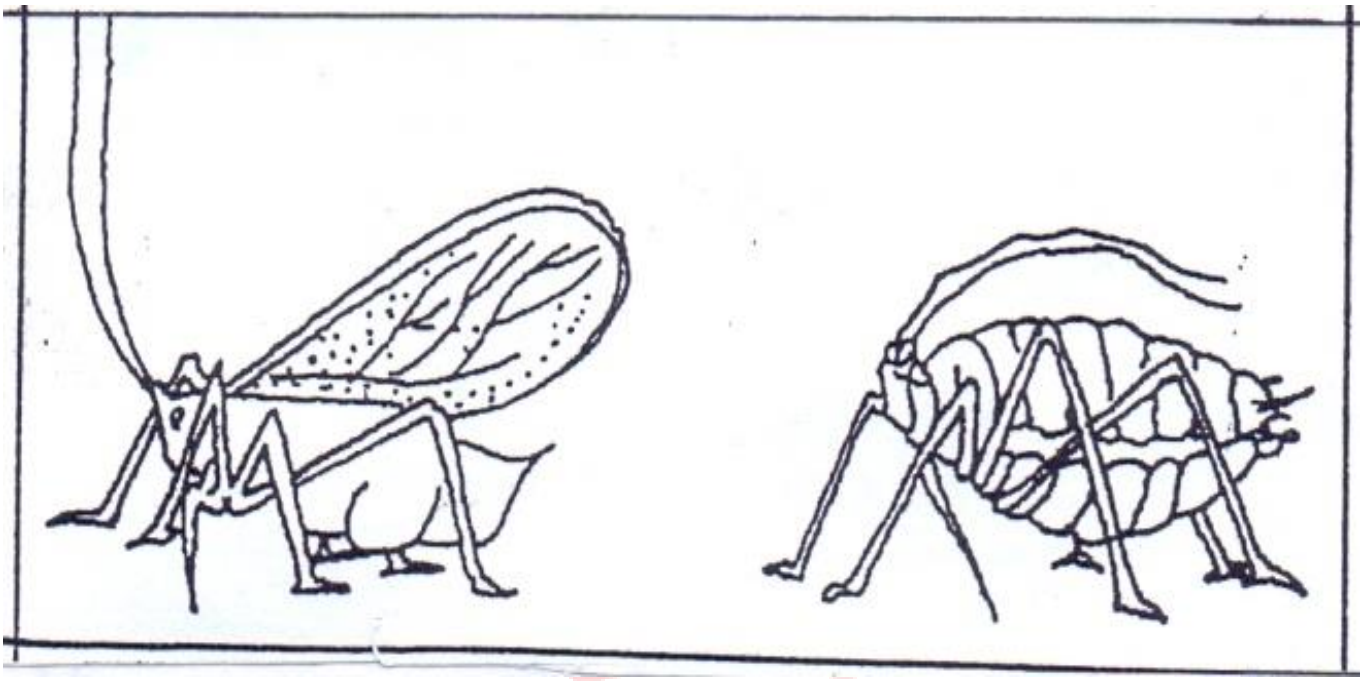
[b] State the functions of the parts labeled **J, K** and **L** . **[3 marks]**

J

K

L

21. Study the crop pest below and answer questions that follow.



[a] Give the identity of the pest above. **[1 mark]**

[b] State ***two*** effects that are caused by the above pest to crops. **[2 marks]**

[c] Give ***two*** control measures of the pest. **[2 marks]**

SECTION C [40MARKS]

*Answer any **two** questions from this section in the spaces provided after question 24 .*

22.[a]Describe the growing of dry bean seeds under the following sub headings .

- Selection and preparation of planting materials. **[3 marks]**
- Planting. **[4 marks]**
- Weeding. **[3 marks]**

[b] Describe the environmental conditions that may lead to low crop yields **[10 marks]**

23. **[a]** Explain seven ways in which farmers adjust to risks and uncertainties in farming .

[7 marks]

[b] Explain five qualities of a good farm manager. **[5 marks]**

[c] The following are expenses of Pioneer Farm in the year 2014.

Concentrates shillings 5500
Seeds shillings 4500
Fertilizer shillings 7000
Fuel shillings 2000
Disc harrow 175000
The farmer sold wheat to millers for shillings 120000
Sold cabbages to the market for shillings 40000
Sold milk to school for shillings 30000
Sold poles to a saw mill for shillings 25000
The opening valuation was shillings 150000
The closing valuation was shillings 250000

- Prepare a profit and loss account for Pioneer farm for the year ending 2014 **[7 marks]**
- Did the farm make a profit or a loss and of how much? **[1 mark]**

24. **[a]** Describe seven cultural or biological methods of soil and water conservation.

[7 marks]

[b] Describe agro forestry under its importance to the country. **[7 marks]**

[c] Explain six objectives of the million acre scheme of land settlements. **[6 marks.]**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 8 PAPER 2

2 HOURS

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SCHOOL…….. SIGN…….

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		TOTAL SCORE	

SECTION A (30 Marks)

Answer all the questions in this section in the spaces provided

1. Name **two** bloodless methods of castration in lambs. **(1 mark**

2. Name the strokes in a four stroke cycle engine**.** **(2 marks)**

3. Give the appropriate term that refers to each of the following:

(a) castrated chicken **(½ mark)**

(b) young one of a rabbit **(½ mark)**

4. Distinguish between the following terms as sued in livestock health:

(a) isolation and quarantine; **(1 marks)**

(b) curative drug and prophylactic drug **(1 marks)**

5. State four practices that immediately come after complete milking in a milking shade **(2marks)**

6. Name two practices that are carried out when preparing ewes for mating **(1mark)**

7. State **three** factors that would determine the amount of concentrate fed to dairy cattle**.** **(1 ½ mks)**

8. Give **three** reasons why calves should be housed in individual pens. **(1 ½ marks)**

9. Name **two** plumbing tools**.** **(1mk)**

10. State three advantages of embryo transplant in dairy cattle **(1 ½ mks)**

11. Name the breed of sheep which has lambing percentage of 125 – 140 **(½ mk)**

12. Give three signs that would indicate a cow has died of anthrax**.** **(1½ mks)**

13. Give three reasons for feeding bees **(1½ marks)**

14. Give two reasons why identification of farm animals is important **(1 marks)**

15. Name two larval stages in the life cycle of a liver fluke **(1 mark)**

16. Outline four types of fence that can be used in mixed farm **(2marks)**

17. Name three methods of out breeding in livestock production **(1 ½ marks)**

18.(a) Give **four** methods of administering vaccines in poultry. **(2marks)**

(b) State three characteristics of an effective acaricide **(1 ½ mks)**

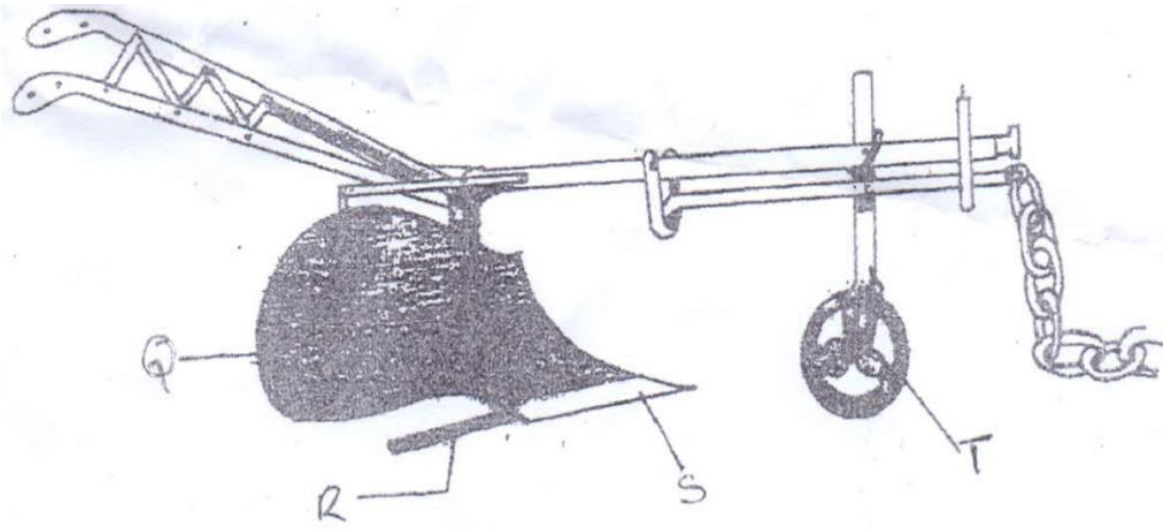
19. Give **four** reasons for treating timber used in construction of farm store. **(2 marks)**

20.State **two** factors that influence the daily water intake in a dairy cow **(1 marks)**

SECTION B (20Marks)

Answer all the questions in this section in the spaces provided

21. The diagram below shows a farm implement. Study it and answer questions that follow



(a) Identify the farm implement illustrated above. **(1mk)**

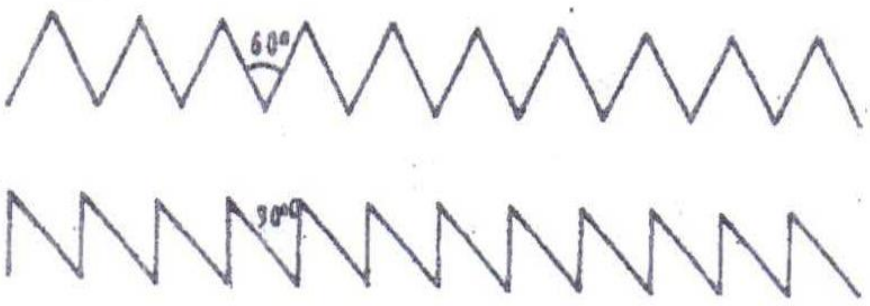
(b) (i) Name the parts labeled **Q , R , S** and **T**

Q…….**(½ mk)**
R……..**(½ mk)**
S……...**(½ mk)**
T……**(½ mk)**

(ii) Give the function of the part labeled **R**. **(1mk)**

(c) Give two functions of the implement illustrated above. **(2mks)**

22. (a) The diagram labeled **A** illustrated show the teeth arrangement of a hand workshop saw. Study it and answer questions that follow.



(a) Name the type of saw represented by the teeth arrangement **A** and **B.** **(1mk)**

A……...

B……..

(ii) Give the functional difference between tools **A** and **B** represented above. **(2mk)**

(b) Give two maintenance practices for the tools represented by the teeth illustrated above. **(2mks)**

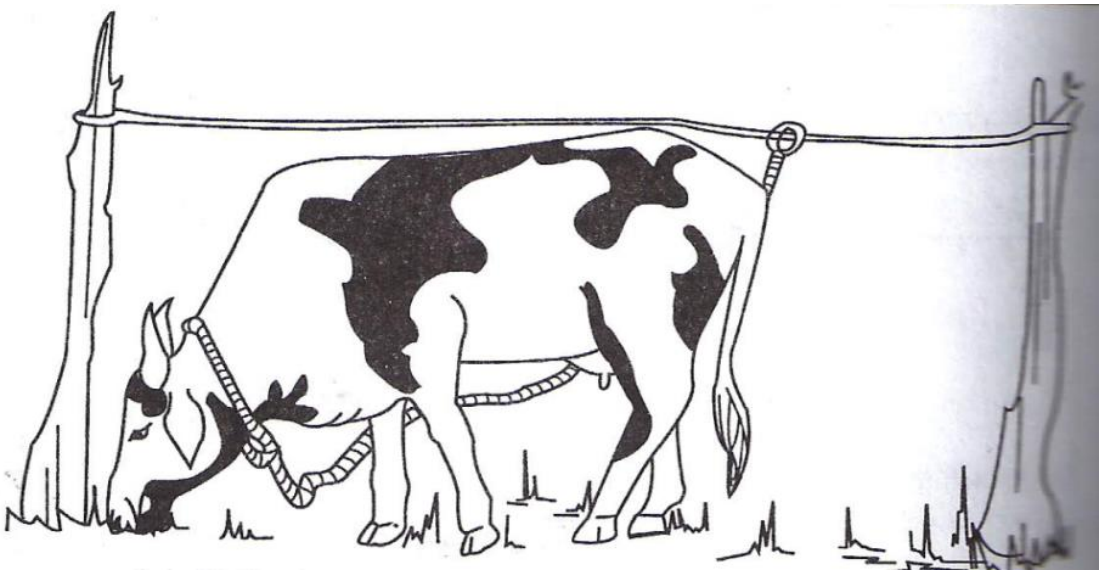
23. (a) Below is an illustration of an activity carried out in poultry management. Study it and answer questions that follow.



(i) Identify the practice illustrated above **.** **(1mk)**

(ii) Give two reasons for carrying out the practice illustrated above**.** **(2mks)**

b) Study the illustration showing a method of grazing



(i) Identify the method of grazing illustrated above**.** **(1mk)**

(ii) Give three disadvantages of the method named in (i) above. **(3mks)**

(C) Give two reasons for raddling in sheep management**.** **(2mks)**

SECTION C (40 MKS)

Answer any two questions from this section in the spaces provided.

24.(a) (i) State the factors that determine the choice of a poultry rearing system by farmer **(6mks)**

(ii) Outline the factors to consider in sorting and grading eggs **(4mks)**

(b) (i) Describe five practices that would ensure clean milk production **(5mks)**

(c Describe the processing of honey using heat method. **(5mks)**

25.(a) Discuss milk fever disease under the following subheadings

(i) Cause **(1mk)**

(ii) Livestock attacked **(2mks)**

(iii) Symptoms **(5mks)**

(iv) Control measures **(2mks)**

(b) State the major difference in the digestion of food between ruminants and non- ruminants in the following parts of the digestive systems.

(i) Mouth **(3mks)**

(ii) Caecum **(2mks)**

(c) Describe five methods of controlling cannibalism in a flock of layers **(5mks)**

26.(a) State five non – chemical methods of controlling ticks in cattle **(5mks)**

(b) Explain five construction features necessary in a fish pond **(5mks)**

(c) (i) State five maintenance practices of a tractor battery **(5mks)**

(ii) Explain five possible causes of overheating in an engine **(5mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 9 PAPER 1

2 HOURS

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SECTION A (30 MARKS)

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

1. Give the functions of the following people in the market

i) Itenerant touders **(1mk)**

ii) Broker agent

2. Name two categories of plants on the basis of photoperidism. **(1mk)**

3. Give a reason for performing the following practices in a cabbage nursery.

i) Pricking out **½ mk**

ii) Hardening of **½ mk**

4. Give two factors that determine the choice of correct implements for primary tillage. **(1mk)**

5. State four factors that influence the quality of farm yard manure. **(2mks)**

6. State two objection of land redistribution in Kenya after independence. **(1mks)**

7. List four ways in which crop pests are classified. **(2mks)**

8. State four reasons why needs are said to be well adapted to the environment. **(2mks)**

9. State one reason why manure should not be used in carrot production. **(½ mk)**

10. **i)** Define the term defoliation as used in forage production. **(½ mk)**

ii) Give four practices that should be carried out to maintain grass pasture **(2mks)**

11. State any two forms of enterprises relationship. **(1mk)**

12. Name the crop which uses the following parts as planting materials.

i) Crowns and slips **(1mks)**

ii) Bulbils **(1mk)**

13. Differentiate between the term silvo pastoral and agrosilvo pastoral **(1mk)**

14. State four factors that influence soliflaction. **(2mks)**

15. Give the relationship between scarcity and choice as used in agricultural economics. **(2mks)**

16. Name two ways in which carbon is returned into the atmosphere **(1mks)**

17. List the disadvantages of contract forming in Agriculture **(4mks)**

18. Name two pruning methods used in coffee production **(1mk)**

19. **i)** State four deficiency symptoms of phosphorus in crops **(2mk)**

ii) Give four ways in which cover crops help to conserve the soil **(2mks)**

SECTION B (20MKS)

Answer all questions in this section in the spaces provided

20. a) A farmer has four plots P_1, P_2 P_3 and P_4 as shown below. Each of the plots has agronomic problems as indicated.

P_1	P_2	P_3	P_4
Infected with bacterial wilt	Deficiency In Nitrogen	Infected with weed (Striga species)	Prone to Soil Erosion

The farmer intends to grow maize, groundnuts Rhodes grass and tomatoes.

Indicate the crop the farmer should grow in each of the plots

P_1 .....

P_2.....

P_3.....

P_4.....

b) Differentiate between as hybrid and a composite in crop production **(1mk)**

21. Study the diagram below

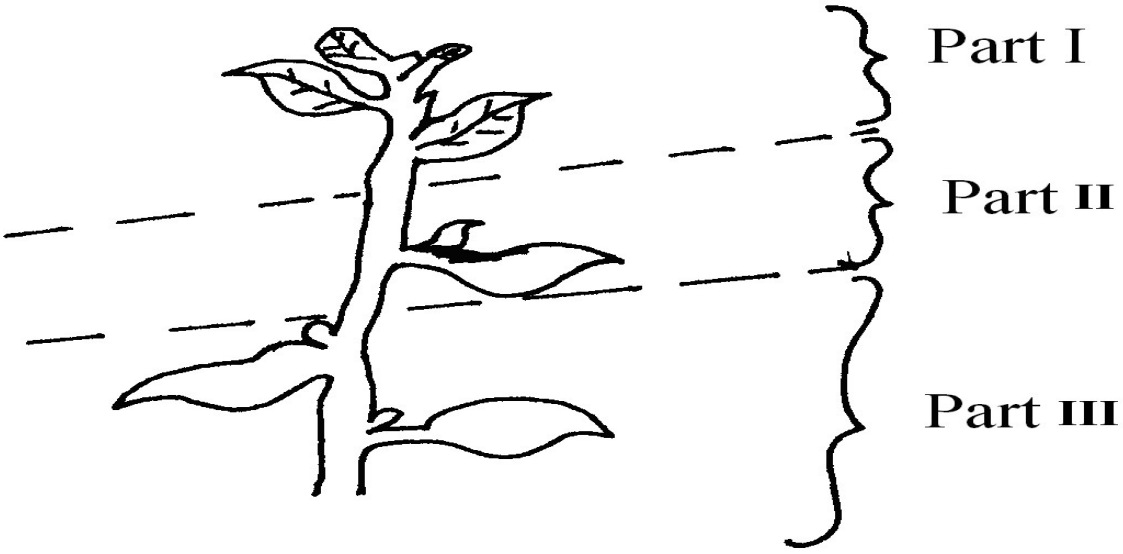


i) Identify the type of micro catchments illustrated above. **(1mk)**

ii) Name one type of crops that you can recommend to be grown under this type of micro – catchments **(1mk)**

iii) State three other types of micro- catchments that are commonly used on the farms. **(3mks)**

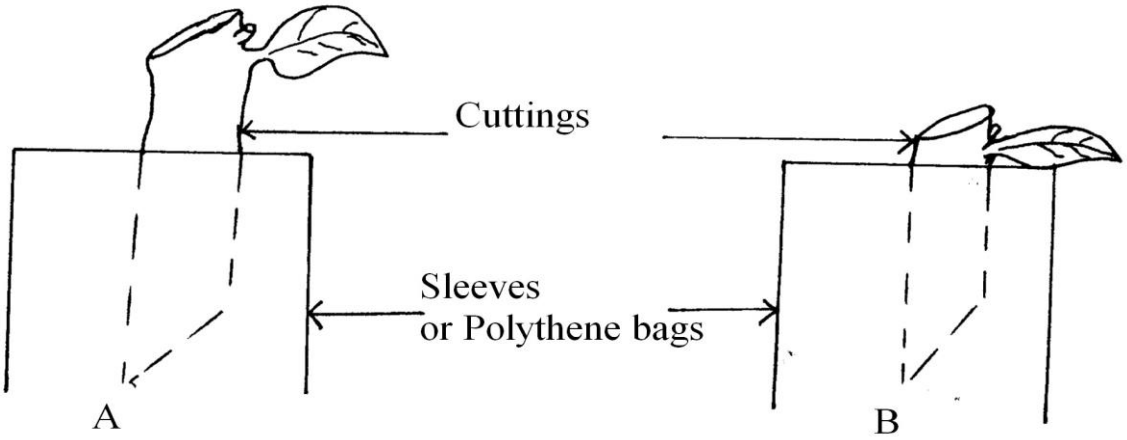
22. **a)** The diagram below shows a tea shoot from which the cuttings are obtained for planting



i) From the diagram, which part or parts would be used for planting as a good cutting? **(½ mk)**

ii) Give a reason for your choice in d (i) above

b) The diagrams, A & B below shows the cutting inserted into the sleeves or polythene bags.



i) In which diagram has the practice been done correctly? **(½ mk)**

ii) Give a reason for your choice in b(i) above **(1mk)**

23. Study the following information which was extracted from Mr. Rambo's farm record on 31- 12-2011 and answer the questions that follow.

Loans payable to the bank 300,000
Five milking cows 250,000
400 – layers 80,000 20 – goats 30,000
Debts payable to co – operative 20,000
Buildings and structures 600,000
Bonus payable to workers 19,000
Cattle feed in store 10,000
Animals drugs in store 4,000
Debts receivable 18,000 Breakages to repair 30,000
Spray Equipment 12,000 Cash at hand 20,000
Cash at Bank 30,000

i) Prepare abundance sheet for Rambo's farm using the information above. **(7mks)**

ii) Did the farm make a profit or a loss **(1mk)**

iii) What is the meaning of the farm being insolvent **(1mk)**

SECTION C 40 MKS

Answer any two questions from this section in the spaces provided after question 25.

23. a) Explain five factors that influence seed rates in crop production. **(5mks)**

b) Describe any five ways in which a farmer adjusts to risk and uncertainties. **(5mks)**

c) Outline any five importance of budgeting in a farming business. **(5mks)**

d) Explain how a farmer may manage a banana stool for high yield. **(5mks)**

24. a) Outline six cultural methods used to controls needs in the farm **(6mks)**

b) Describe various methods a farmer can use drain a waterlogged farmland. **(5mks)**

c) Explain steps followed in land adjudication and Registration. **(5mks)**

d) Outline any four activities that may be undertaken in organic farming **(4mks)**

25. a) Describe the methods used in preparing planting materials in readiness for planting. **(6mks)**

b) Outline the importance of Agro forestry in soil and water conservation. **(4mks)**

c) Describe the establishment of kales under the following sub – headings.

i) Nursery management **(3mks)**

ii) Establishment in nursery **(3mks)**

iii) Explain the advantages of mixed grass legume pasture over a pure grass pasture. **(4mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 9 PAPER 2

2 HOURS

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SECTION A (30MKS)

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

1. Name one intermediate host for each of the following livestock parasites.

i) Liverfluke(fasciola sp) **(½ mark)**

ii) Tape worm(Taenia sp.) **(½ mark)**

2. Name the breed of goat kept for hair production **(½ mark)**

3. Give two reasons for having a footbath in a cattle deep. **(1 mark)**

4. Differentiate between the following tool

a) Bastard file and rasp file **(1 mark)**

b) Copying saw and hack saw **(1 mark)**

5. State any two reasons why eaves disown lambs. **(1 mark)**

6. List any four qualities of good creep feed. **(2 marks)**

7. Name two livestock diseases that are caused by protozoa **(1 mark)**

8. State four parasites that a farmer should carry out to reduce egg eating habits in poultry **(2 mks)**

9. State two ways of preparing the saw for furrowing. **(1 mark)**

10. State two maintenance practices of a tractor battery. **(2 marks)**

11. State four management practices that would ensure maximum harvest of fish from fish pond. **(2 marks)**

12. State two advantages of using wood in the construction of farm building. **(1 mark)**

13. State four conditions inhibiting milk let down. **(2 marks)**

14. State what happens on the following parts of a hen during egg formation.

i) Magnum **(1 mark)**

ii) Isthmus **(1 mark)**

15. State four desirable features of a rabbit hutch. **(2 marks)**

16. List any two components of electrical system in a tractor engine. **(1 mark)**

17. State four factors considered when sitting an apiary. **(2 marks)**

18. Give two reasons for foot trimming in sheep. **(2 marks)**

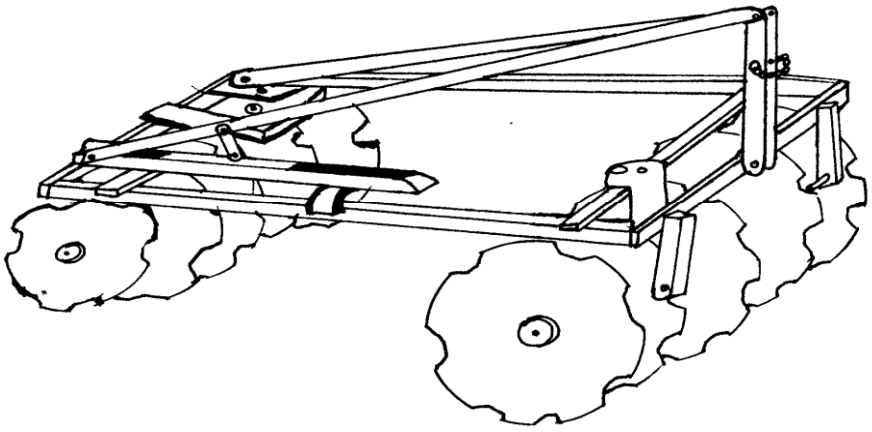
19. a) Give four features of a good laying nest. **(2 marks)**

b) Give three reasons why a young calf must be fed on colostrums during the first few days of life. **(1 ½ marks)**

SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided

20. a) Below is a diagram of a farm equipment.



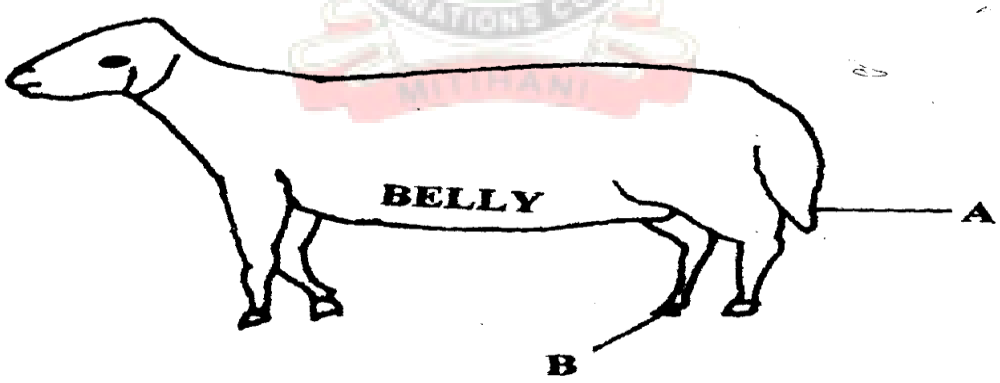
i) Identify the equipment. **(½ mark)**

ii) State one function of the toothed edges. **(½ mark)**

iii) State one methods of increasing the depth of penetration of the equipment **(1 mark)**

iv) State four maintenance practices carried out on the equipment shown in the diagram **(2mks)**

21. A diagram of a sheep is shown below. Study the diagram and answer the questions that follow



i) What operation is usually carried out on the part labeled A? **(½ mark)**

ii) Give two reasons for carrying out the operation stated in a(i) above? **(1 mark)**

iii) At what age should the operation in a(i) above be carried out? **(½ mark)**

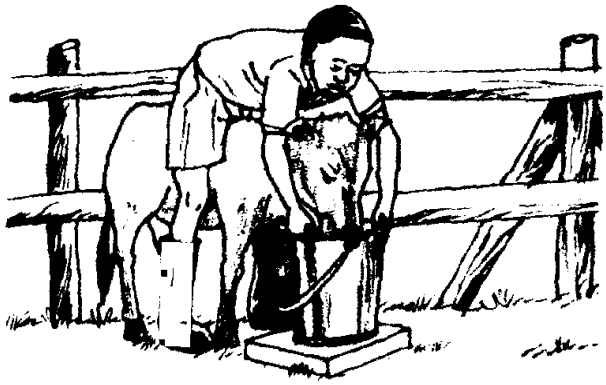
iv) Give two methods of carrying out the operation in a(i) above. **(1 mark)**

v) Which routine is usually carried out on the part labeled B. **(1 mark)**

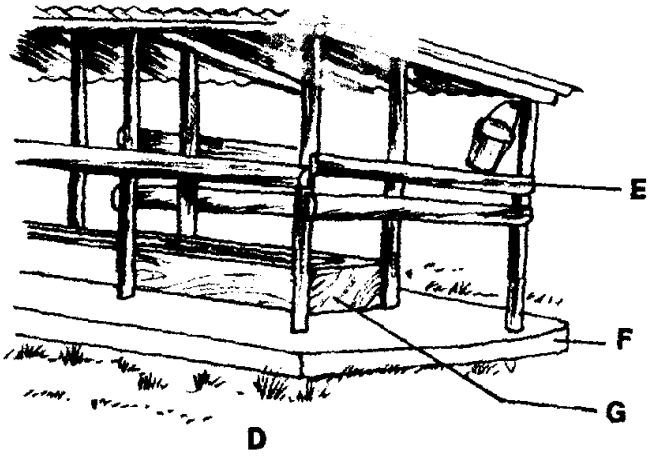
vi) Name the disease that is likely to affect the sheep if the operation stated in a(v) above is not carried out. **(1 mark)**

vii) Explain how the sheep should be restrained when shearing the wool around the belly **(2 marks)**

22. The diagrams bellow illustrates a livestock activity and livestock handling structure. Study the diagram and answer the questions that follow.



C



D

a) Identify the activity in C and the structure in D **(1 mark)**

b) i) State two hygienic precautions to be taken in activity C. **(1 mark)**

ii) Name the materials used in constructing parts E and F in structure D**.** **(1 mark)**

iii) What is the purpose of G an D **(1mk)**

22. The following diagram illustrates a symptom of a disease in poultry. Study it carefully and answer the questions that follow.



a) Identify

i) The disease **(½ mark)**

ii) The causal organism **(½ mark)**

b) A part from lesions, state two other symptoms of the disease. **(2 marks)**

c) State two control measures for the disease. **(2 marks)**

SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided after question 26

23. a) Discuss any six(6) signs of Trypanosomiasis in livestock. **(6 marks)**

b) Compare the use of an ox-drawn mouldboard plough with that of a tractor drawn mouldboard. **(10 marks)**

c) Explain various preparations carried out on fish before preservation. **(4 marks)**

24. **a)** Discuss any three breeding practices carried out on animals in the farm. **(9 marks)**

b) Explain any three types of metals used in construction. **(6 marks)**

c) Outline any five factors considered in selecting materials for construction of farm structures. **(5 marks)**

25. a) Discuss the various methods of disease control in livestock production. **(10 marks)**

b) Describe the digestion of grass in the rumen of an adult ruminant. **(8 marks)**

c) Explain two reasons why raddling is necessary in sheep management. **(2 marks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 10 PAPER 1

2 HOURS

NAME…… INDEX NO……..….

SCHOOL…….. SIGN…….

DATE……...

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c) *This paper consists of three sections **A,B** and **C***

d) *Answer **ALL** the questions in Section **A** and **B** and Answer two questions from Section **C.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 19	30	
B	20 – 25	20	
C	26 - 28	40	
		TOTAL SCORE	

SECTION A (30 MARKS

Answer ALL the in this section in the spaces provided.

1. a). What is land fragmentation in farming? **(½ mark)**

b) State two causes of land fragmentation in Kenya since independence **(1mk)**

2. State four advantages of using organic matter for mulching. **(2mks)**

3. State four reasons for practicing crop rotation. **(2mks)**

4. Give two advantages of growing one type of annual crop on the same piece of land continually. **(1mk)**

5. State four factors that may determine the number of cultivation when preparing a seed bed. **(2mks)**

6. State four methods of improving labour productivity on a farm **(2mks)**

7. Explain the following terms as used in agricultural economics**.** **(2mks)**

i. Marginal Returns

ii. Gross Domestic product (G D P)

iii. Opportunity cost

iv. Per capital income

8. Mention two ways by which soil PH may affect crop production **(1mk)**

9. Give two mechanical methods of separating soil particles according to size during soil analysis. **(1mk)**

10. Mention four factors which affect the quality of hay **(2mks)**

11. Give one possible cause of swelling on the root of bean plants. **(½ mk)**

12. Mention two soil factors which influence soil productivity. **(1mk)**

13. Give four factors which influence solifluction. **(2mks)**

14. List four factors that affect the selectivity of herbicides **(2mks)**

15. List down four benefits that a farmer may derive from agro forestry trees **(2mks)**

16. Give two types of product-product relationship in agricultural economics. **(1mk)**

17. Mention four activities carried out by young farmers clubs in Kenya **(2mks)**

18. Give four deficiency symptoms of phosphorus in crops. **(2mks)**

19. State two characteristics of a good rootstock for grafting **(1mk)**

SECTION B (20 MARKS)

Answer ALL the questions in this section in the spaces provided

20. Below is a diagram of a bird labelled A, which is a crop pest.



A

(i) Identify the bird_____ **(½mk)**

(ii) **State two** ways by which the bird causes loss in crops. **(1mk)**

(iii) **State four** methods which are used to control the pest. **(2mks)**

21. Below is a diagram of money maker tomato plant labeled B

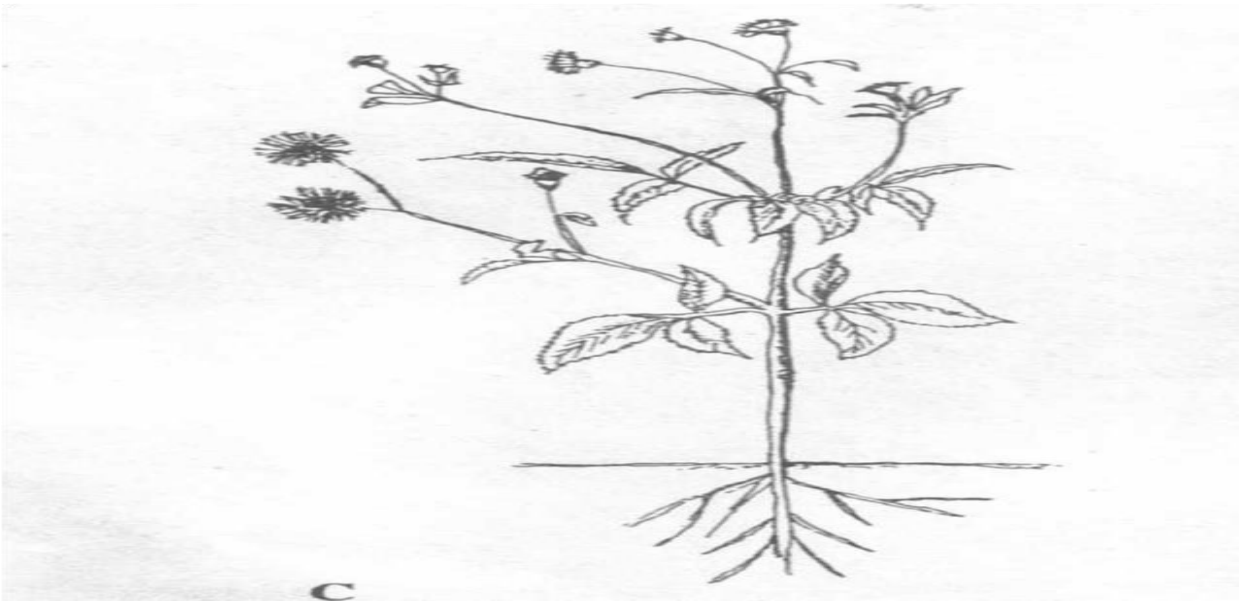


B

i) Identify any two management practices that have not been carried out on the tomato plant **(1mk)**

ii) State two problems that may arise as a result of not carrying out the management practices you have indentified (i) above **(1mk)**

22. The diagram below shows a weed plant labeled C.



i) Identify the weed plant **(½mk)**

ii) State two reasons for controlling the weed labeled C in a crop field. **(1mk)**

iii) State one herbicide that can be used to control the weed in a field of growing maize. **(1mk)**

iv) At what stage of growth of maize should a post emergence herbicide be applied? **(½mk)**

23. i) What is a cut off drain? **(½mk)**

(ii) Describe the procedure of constructing a cut off drain. **(2mks)**

(iii) State one factor that would determine the width and depth of the cut- off drain **(½mk)**

24. On 10/1/2010 Lutonyi farm purchased on credit the following items from an Agro-vet shop

a) 20 bags of dairy meal, 70kg each @ kshs1, 100 per bag

b) 16 bags of bran, 70kg each@kshs700 per bag

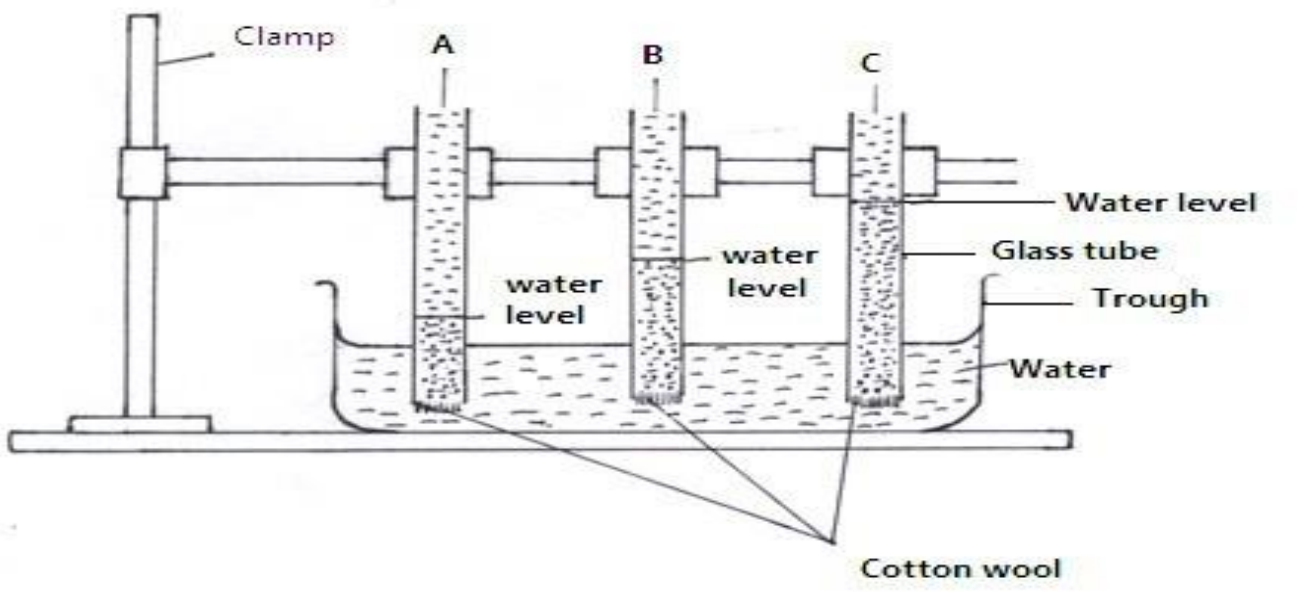
c) 18 bags of D.S.P fertilizer,50kg@kshs1,500 per bag

d) 45 bags of seed maize, each2kg @kshs300 per bag

e) 8 Shearing knives (medium sized)@kshs300 per knife

ii) Calculate the value of each item purchased and the total value of the order. **(2mks)**

25. The diagram below shows an experiment set up using soil types A,B and observations were made after 24hours.Study the diagram and answer the questions that follows



i) what is the experiment represented in the diagram above designed to study? **(½ mk)**

ii) Name the three soil types labelled A, B and C. **(1 ½ mks)**

A

B

C

iii) What is characteristic texture of soil types A and C? **(1 mk)**

A_____

C_____

iv) State how a farmer would improve the structure of soil type A. **(½ mk)**

SECTION C 40 MARKS)

Answer any TWO questions from this section in the spaces provided after question 28

26. a) Mention and explain five sites for agro-forestry trees in the farm. **(10mks)**

b) Explain the factors to consider in choosing the type of irrigation in the farm. **(10mks)**

27. a) Describe the field production of Tea under frame formation by pegging method **(10mks)**

b) Describe the growing of Tomatoes under the following sub- headings

i) Transplanting **(5mks)**

ii) Diseases and their control **(5mks)**

28. a) State and explain the market functions **(10mks)**

b) State and explain the various Land Tenure systems practised in Kenya **(10mks)**

TOP SCHOOLS PREDICTION

AGRICULTURE

TRIAL 10 PAPER 2

2 HOURS

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c) *This paper consists of three sections **A,B** and **C***

d) *Answer **ALL** the questions in Section **A** and **B** and Answer two questions from Section **C.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 16	30	
B	17 – 20	20	
C	21 - 23	40	
		TOTAL SCORE	

SECTION A (30MARKS)

Answer ALL questions in this section in the spaces provided

1. **State four** factors that affects the digestibility of animal feed. (2mks)

2. Distinguish between crutching and ringing in sheep production **(2mks)**

3. **Give four** factors considered when sitting an apiary. **(2mks)**

4. **State four** physical features of a good layer **(2mks)**

5. **Give four** uses of harrows **(2mks)**

6. **Explain** the term 'hybrid vigour' as used in livestock production. **(1mk)**

7. **State four** desirable features of a rabbit hutch. **(2mks)**

8. **Give four** disadvantages of an artificial incubation. **(2mks)**

9. **State four** signs of round worms attack in livestock production. **(2mks)**

10. **List six** predisposing factors to livestock diseases. **(3mks)**

11. **Give four** maintenance practices of a disc plough. **(2mks)**

12. Name the vector which transmits the following diseases. **(1mk)**

i) East coast fever_____

ii) Trypanosomiasis_____

13. List ***four*** farm structures which would assist to control livestock parasites. **(2mks)**

14. State ***four*** signs which indicate that the sow is about to furrow. **(2mks)**

15. Name the other tool used together with the following tools during their operations. **(2mks)**

a) Cannular_____

b) Brace_____

c) Elastrator_____

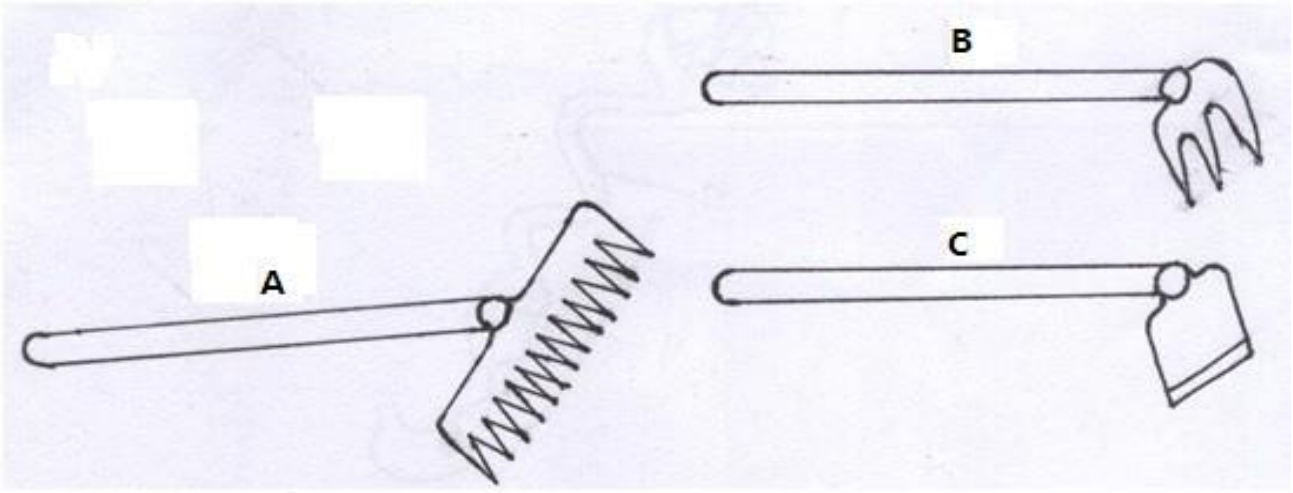
iv) Wood chisel_____

16. Name the strokes in the ***TWO*** stroke cycle engines. **(1mk)**

SECTION B (20MARKS)

Answer ALL questions in the spaces provided

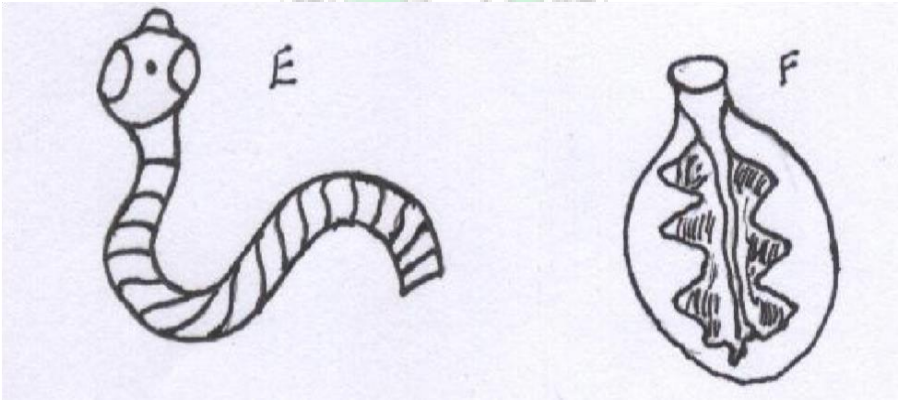
17. The diagram below illustrates the farm tools labeled A, B and C.Study them and answer the questions that follow



a) ***State THREE*** proper uses for the tool labeled **A.** **(3mks)**

b) **State THREE** field conditions under which the tool labeled **B** would be more suitable for use than tool **C.** **(3mks)**

18. The diagrams **E** and **F** below shows livestock parasites



a) **Identify** parasite labeled **E** and **F** **(1mk)**

b) **Name** the organ in which each parasite is commonly found **(1mk)**

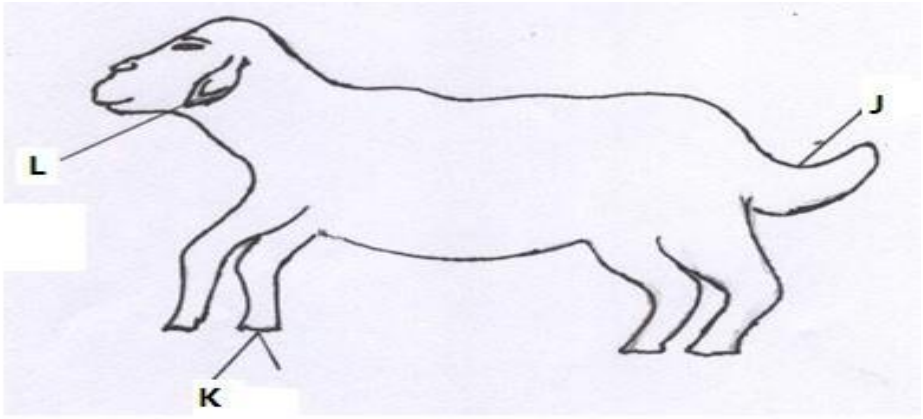
i) Parasite E _____

ii) Parasites F_____

c) **Name** the intermediate host of the parasite labeled **E** **(½mk)**

d) **State four** control measures of the parasite labeled **F** in livestock production**.** **(2mks)**

19. Below is a diagram of a sheep with some parts labelled J, K and L. Study the diagram and answer the question that follow



a) Name the operation usually carried out on the part labeled **J** during the early stages of sheep life **(½ mk)**

b) **Give TWO** reasons for carrying out the above operation ie in (a) above **(2mks)**

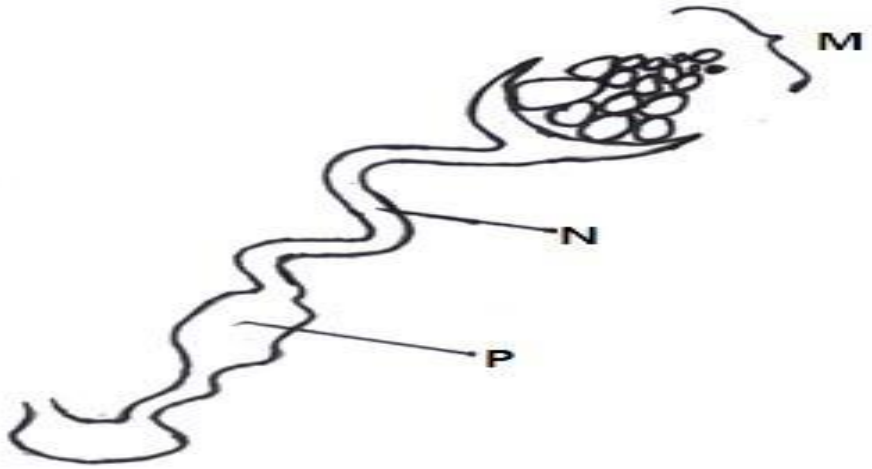
c) **Name TWO** methods of carrying out the above operation ie (in (a) above). **(1mk)**

d) Which routine operation is usually carried out on the part labelled K. **(½mk)**

e) **Give TWO** reasons for carrying out the above operation i.e (d above). **(1mk)**

f) **Name TWO** methods of identification carried out at the part labeled **L.** **(1mk)**

20. Below is a diagram showing the reproductive system of a hens study the diagram and answer the questions that follow



a) **Identify** the parts labeled **M**, **N** and **P** **(1½mks)**

b) **State the function** of the parts labeled **N** and **P** **(2mks)**

Part **N**_____

Part **P**_____

SECTION C (40 MARKS)

Answer any TWO questions from this section in the spaces provided after question 23

21. **(a) Describe** the management of piglets from farrowing up to weaning of piglets. **(12mks)**

(b) **Give FOUR** importance of feeding colostrum to calves. **(4mks)**

(c) **State FOUR** causes of cannibalism in poultry production. **(4mks)**

22. **(a) State FIVE** advantages of farm mechanization. **5mks)**

(b) **Give FIVE** maintenance practices of a water cooling system of a tractor. **(5mks)**

(c) **State the major** structural and functional differences of the diesel fuel system and petrol fuel system of tractor engines. **(10mks)**

23. **(a) State FIVE** importance of keeping livestock healthy. **(5mks)**

(b) Discus milk fever disease in cattle under the following sub-headings

(i) Cause **(1mk)**

(ii) Symptoms **(8mks)**

(iii) Control measures **(3mks)**

c) State THREE qualities of clean and high quality milk **(3mks)**

THE END

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