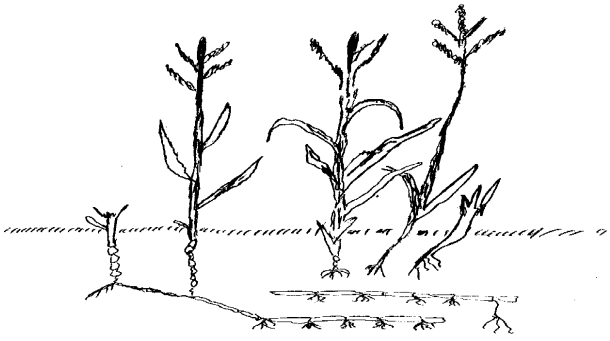
KCSE AGRICULTURE 2022 LATEST PREDICTION EXAMS

KCSE PREDICTION 1 2021
PAPER 1
SECTION A ANSWER ALL QUESTIONS 30MARKS

1.Define organic farming (1mk)
2.State **Four** reasons why agriculture is regarded as a science. (2mks)
3.Give **four** effects of HIV/Aids on agricultural production and development. (2mks)
4.a) State **two** farming practices that help in reducing the effects of water shortage in crop production (2mks)
b) Give **four** advantages of rotational grazing in cattle farming. (2mks)
5.State **two** disadvantages of small-scale farming. (1mk)
6. State **four** ways of treating water for use in the farm. (2mks)
7.State **four** benefits of using organic materials for mulching. (2mks)
8.State **four** disadvantages of non-capped multiple stems pruning in coffee. (2mks)
10.State **four** factors considered in selecting the site for making compost manure. (2mks)
11.Give **two** reasons for flooding in the growing of paddy rice. (1mk)
12.Give **two** appropriate situations under which foliar spraying is most suitable. (1mk)
13.State **four factors** contributing to the competitive ability of weeds (2mks)
14.Give **four** conditions of land which may make it necessary to carry out reclamation practices (2mks)
15.Name ***two*** physical weathering agents in the soil formation process (1mk)
16.State ***two*** Mechanical methods of separating soil particles according to size during soil analysis *(1mk)*
17.State four **functions** of Boron in crop development (2mks)
18.State ***four*** factors that should be considered when classifying crop pests (2 mks)

SECTION B 20 MARKS
ANSWER ALL QUESTIONS IN THIS SECTION

19. The diagram below shows a weed study it carefully.



(a) **Identify** the weed. (1mk)
(b) **State two** economic importance of the weed. (2mks)
(c) **Why** is it difficult to control the weed?

20.The diagrams below labeled A and B illustrate field pests. Study the diagrams carefully and answer the questions that follow.



a) Identify the field pests illustrated in the diagrams A and B. (2mks)

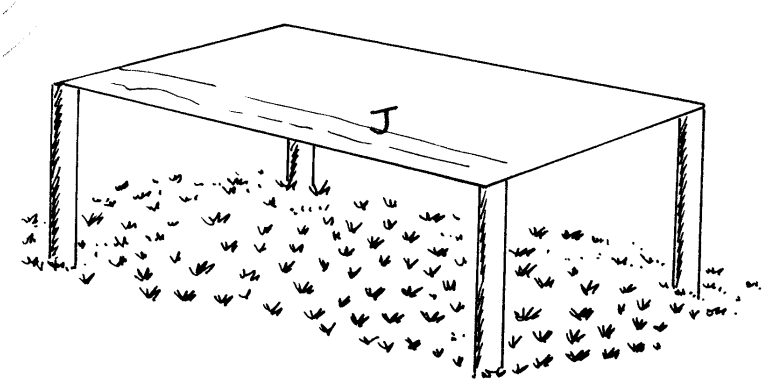
A ……

B ……

b) Classify the pests A and B (2mks)

c) State ONE control measure of pest B (1mk)

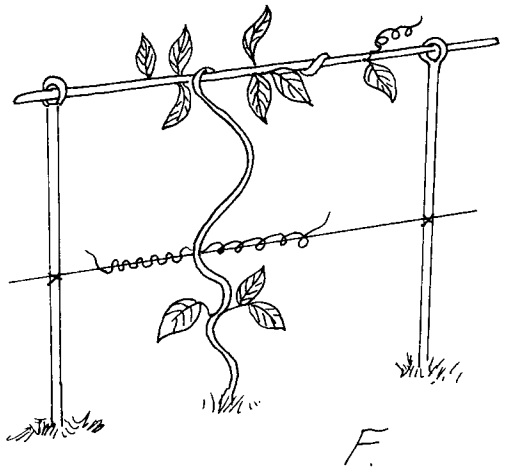
21. Below is a diagram of a nursery for raising the seedlings.



(a) State two advantages of having the part labeled J (2mks)

(b) State any ***three*** management practices that should be carried out on the nursery from the time seedlings emerge to the stage of transplanting (3mks)

22.The diagram F, below illustrates a method of training in crops.



i) Identify the method shown in F above. (1mk)

ii) Name **two** other methods used in training in crop production. (2mks)

iii) State two advantages of training in crop production. (2mks)

iv) List **two** crops that require training. (1mk)

SECTION C 40 MARKS

ANSWER ANY TWO QUESTION

23a) i) Define the term land tenure (2mks)

ii) Give three benefits of a Title deed to a farmer. (3mks)

iii) State five effects of land fragmentation in crop farming. (5mks)

b) Describe the production of onions under the following sub-headings:

i) Seedbed preparation. (3mks)

ii) Field management practices. (5mks)

iii) Harvesting. (2mks)

24a) Describe **seven** harmful effects of crop pests. (7mks)

b) Describe **eight** safety measures a farmer should observe when using herbicides to control weeds. (8mks)

c) Describe the harvesting of cotton. (5mks)

25.a) Describe the importance of vegetable crop. (6mks)

b) Explain the cultural methods of pest control. (7mks)

c) **Discuss** the management practices in the production of maize grains from planting to harvesting. (7mks)

PAPER 2

SECTION A (30 marks)

ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACE PROVIDED.

1. Explain the meaning of the following terms.
   a. Raddling. (½mk)
   b. Farrowing. (½mk)
   c. Caponisation (½mk)
   d. Gutting. (½mk)
2. What do the figures 3.3.3 in pig production stand for? (1mk)
3. Name any **two** tools in the farm that can be used to sharpen a blunt panga (1mk)
4. Name **two** livestock diseases prevented by use of the vaccine blanthrax. (1mk)
5. State any **four** mechanical methods of controlling ticks. (2mks)
6. List any **four** farm structures a dairy cattle farmer may have in the farm. (2mks)
7. State **two** disadvantages of using a barbed wire fence in sheep rearing. (1mk)
8. State **four** characteristics of an effective acaricide. (2mks)
9. State any **four** factors that affect the digestibility of feeds in an animal. (2mks)
10. Distinguish between mothering ability and prolificacy. (1mk)
11. State **four** characteristics of succulent roughage feedstuffs. (2mks)
12. State **four** advantages of inbreeding. (2mks)
13. Identify the breed of pig that has the following features.
    -Broad and slightly dished snout.
    - Has a white skin.
    - Has upright ears.

    Identity (1mk)
14. Name **two** methods used in castration of farm animals. (1mk)
15. State **four** causes of stress in poultry. (2mks)
16. List any **two** construction materials required in the construction of a green house. (1mk)
17. Name any **two** sheep breeds kept for production of meat. (1mk)
18. State how the following conditions are achieved in a calf pen.
    a) Draught free. (½mk)
    b) Proper lighting (½mk)
19. State the functions of the following parts of a plunge dip

a) Drying yard. (1mk)

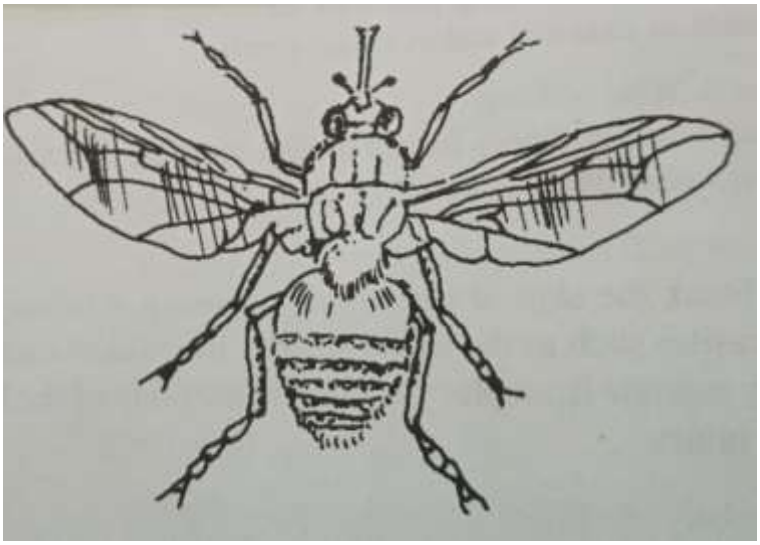
b) Foot bath. (1mk)

20. State **four** uses of a crush. (2mks)

SECTION B 20 MARKS

Answer all questions in this section in the spaces provided.

21. The diagram below represents an external parasite. Study carefully and use it to answer the questions that follows

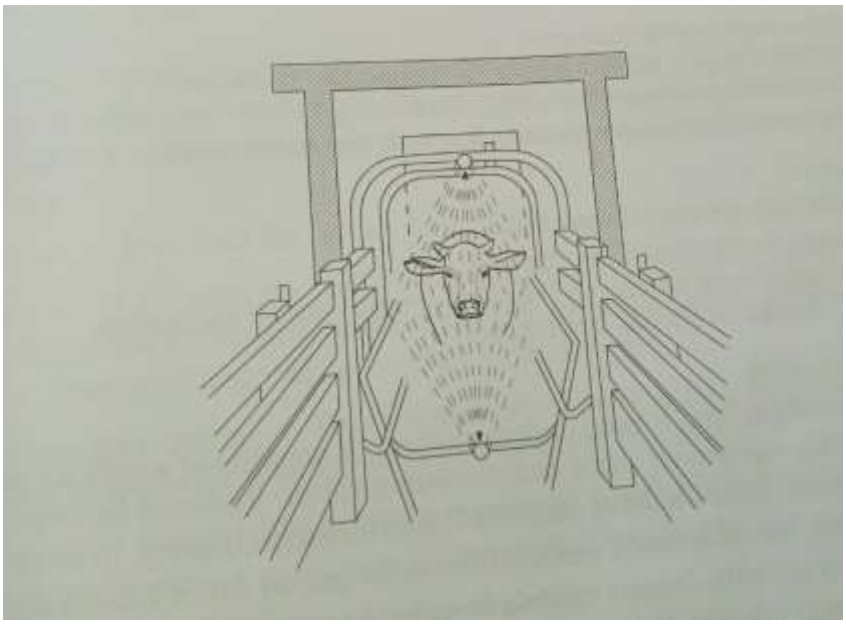


a) Identify the parasite above. (1mk)

b) State any **two** harmful effects of the parasite above. (2mks)

c) State any **two** control measures for the parasite above. (2mks)

22. The diagram below shows a routine practice being carried out on an animal. Study it and answer the question that follows



a) Identify the practice. (1mk)

b) Name the structure in which the practice is being carried out. (1mk)

c) State three advantages of using the above structure instead of a plunge dip. (3mks)

23. Below is a diagram of a cow suffering from a deficiency disease. Study it and answer the questions that follow.

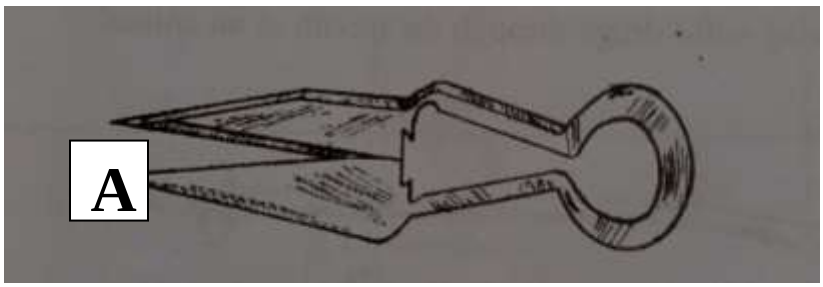


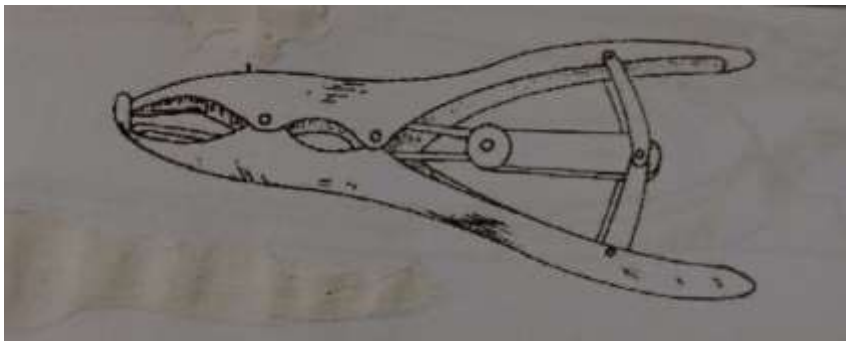
a) Identify the disease the animal is suffering from. (1mk)

b) State the cause of the disease. (1mk)

c) List any **three** symptoms of the above disease. (3mks)

4. The diagram below represents farm tools and equipment. Study and answer the questions that follow.





a) Identify the tools labeled A, and B. (2mks)

b) State one use of each of the tools labeled A and B. (2mks)

c) State one maintenance practice for the tool labeled A. (1mk)

SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided

25.a) Discuss New castle disease under the following sub headings.

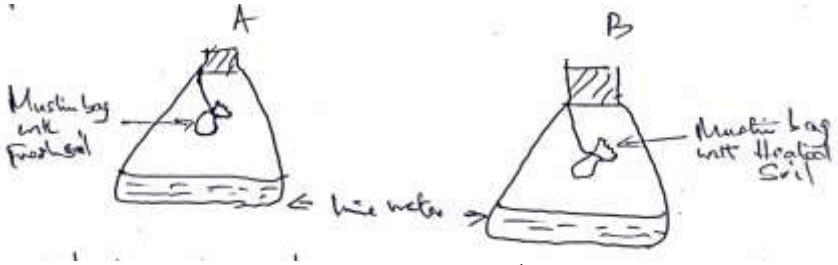
(i) Causal organism. (1mk)

(ii) Animals attacked. (1mk)

(iii) Symptoms of attack. (5mks)
(iv) Control measures. (3mks)
b) Outline the characteristics of indigenous cattle breeds. (5mks)
c) Describe **five** microbial activities that take place in the rumen of ruminant animals. (5mks)
26.a) State and explain any **five** predisposing factors of livestock diseases. (10mks)
b) Describe the **procedure** of constructing a barbed wire fence. (5mks)
c) Outline any **five** general functions of vitamins in livestock. (5mks)
27.a) Discuss any **five** essentials of clean milk production. (10mks)
b) Describe the process of egg formation in the reproductive system of a hen. (10mks)

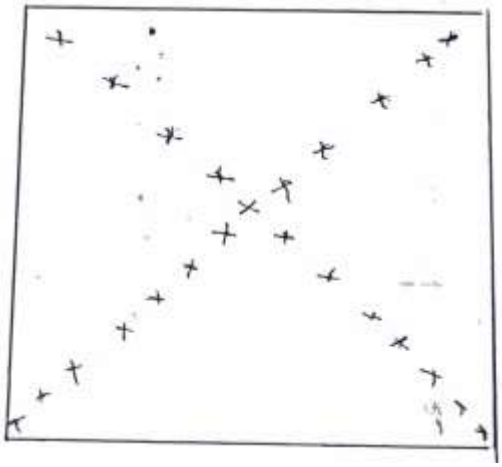
KCSE PREDICTION 2 2022
PAPER 1
SECTION A (30 MARKS)
Answer all questions in this section in the spaces provided

1 a) Give **TWO** characteristics of intensive farming system (1mk)
b) State **TWO** advantages of mixed cropping (1mk)
2. State **TWO** roles of humus in the soil (1mk)
3. List **FOUR** effects of temperature on crop growth (2mks)
4. Diagram below shows an experiment carried out by Form 1 students. Study and answer the questions that follows.



a) What is the objective of the experiment ($^1/_2$mks)
b) What observation should be made after 12 hours in flask A and **B**(1mk)
c) Give the reason for your observation (1mk)

5. Give **THREE** factors that determines the depth of ploughing in land preparation ($1^1/_2$mks)
6 a) what is minimum tillage (1mk)
(b) Give **FOUR** practices that encourages minimum tillage (2mks)
7 a) State **TWO** types of irrigation carried out in Kenya (1mk)
(b) List **FOUR** uses of water on the farm (2mks)
8. Give **THREE** reasons for keeping health record in the farm ($1^1/_2$mks)
9. The diagram below shows a method of soil sampling



a) Name the method illustrated above ($^1/_2$mk)

b) State **THREE** precautions taken when collecting a soil sample ($1^1/_2$mks)
c) Give **FOUR** reasons for testing soil (2mks)
10. State **TWO** reasons for seed treatment (1mk)
11. .Give **TWO** factors that determine spacing of beans (1mk)
12. State **FOUR** benefits of farmer having land tittle deed (2mk)
13. List **THREE** materials that can be used to construct a gabion ($1\ ^1/_2$mks)
14. List **FOUR** harmful effects of crop pests (2mks)
15. Give **FOUR** ways by which a farmer can improve labour productivity on the farm (2mks

SECTION B (20 MARKS)

16. Differentiate between cropping and harvesting in fish farming (2mks)
17. Give **THREE** factors that determine the quality of shading forage (3mks)
18. State **four** characteristics of extensive farming systems (2mks)
19. State **TWO** factors that determine selectivity of herbicides (2mks)
20. Give **TWO** factors affecting the quality of hay (2mks)
21. State **four** physical factors in soil formation (2mks)
22. State **four** factors that determine the depth of planting. (3mks)
23. State **four** harmful affects ticks on livestock. (2mks)

SECTION C (40MARKS)

Answer Any TWO questions in this section

24 (a) Explain **FIVE** cultural methods of pest control (10mks)
(b) Outline **FIVE** factors considered in timely planting of annual crops (10mks)
25 (a) Outline the process of land Adjudication (5mks)
(b) Discuss **five** reasons for carrying out minimum tillage. (5 marks)
(c) Explain **5** ways in which soil losses fertility. (10 marks)
26 (a) Describe **seven** field management practices in tomato production. (7marks)
b. Outline **five** factors that determine water requirements in an animal's body. (5marks)
c. Describe the transplanting of tree seedlings. (8 marks)

PAPER 2

SECTION A (30 Marks)

Answer ALL questions in the spaces provided

1) Name the pig breed which has the following characteristics: long, large, and white body, broad and dished face, upright ears. (½ mk)
2) Name two non-infectious causes of livestock diseases. 1mk
3) Name **four** materials that are collected by bees. (2mks)
4) Give two reasons for the two month dry period the cow requires before parturition (1mks)
5) Outline four ways of controlling egg eating in poultry. (2mks)
6) (a) Name the cause of milk fever. (½ mk)
(b) Give one control measure of milk fever. (½ mk)
7) State **three** field conditions under which a disc plough should be used instead of a mouldboard plough. (1 1/2 mks)
8) (a) State two disadvantages of using metal frames in construction of farm building. (1mk)
(b) Give three reasons for seasoning timber. (1 ½ mks)
9) List four factors that influence the pulse rate of an animal (2 mks)

10) State four qualities of colostrum which make it suitable for feeding newly born calf. (2mks)

11) Name two dual purpose breeds of cattle 1mk

12) Outline four reasons for swarming of bees. (2mks)

13) State four reasons for steaming up in animal production. (2 mks

14) Give two causes of high mortality in piglets. (1mk)

15) (a) what is a notifiable disease? (1mk)

(b) Name four examples of notifiable diseases in livestock. (2mks)

16) Give **three** reasons why drenching alone is not an effective method of controlling intestinal parasites in livestock. $(1\frac{1}{2}mk$

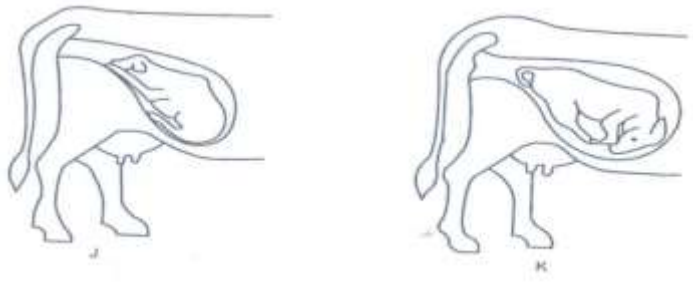
17) State four qualities of eggs preferred by consumers in the market (2 mks)

18) Give four light breeds of chicken in poultry rearing. (2mks

SECTION B (20 Marks)

Answer all questions in this section in the spaces provided after every question

19. The illustration below show different presentation of foetus at the time of birth. Study the illustrations and answer questions that follow.



(a) What diagram represents the normal position of a calf at birth (1mk)

(b) What term is used to refer to position shown in diagram **K**? (1mk)

(c) State three signs of parturition in cattle. (3mks)

20.Observe the tools A, B and C illustrated below then answer the questions that follow.





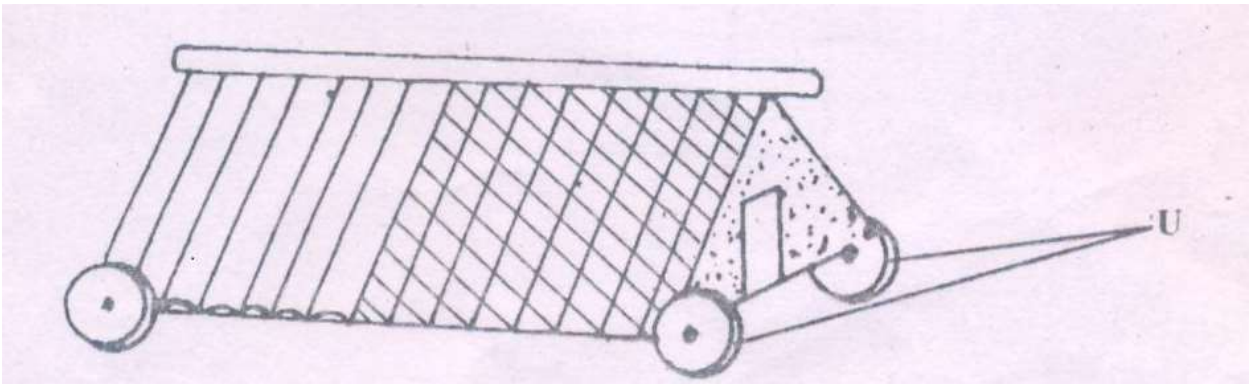


a) Name tools A, B and C and state the correct use of each tool. (3mks)

Tool	Identity	Function
A		
B		
C		

b) State **two** maintenance practices that should be carried out to ensure that tool C is in a good working condition. (2mks)

21. The diagram below represents a poultry keeping structure.

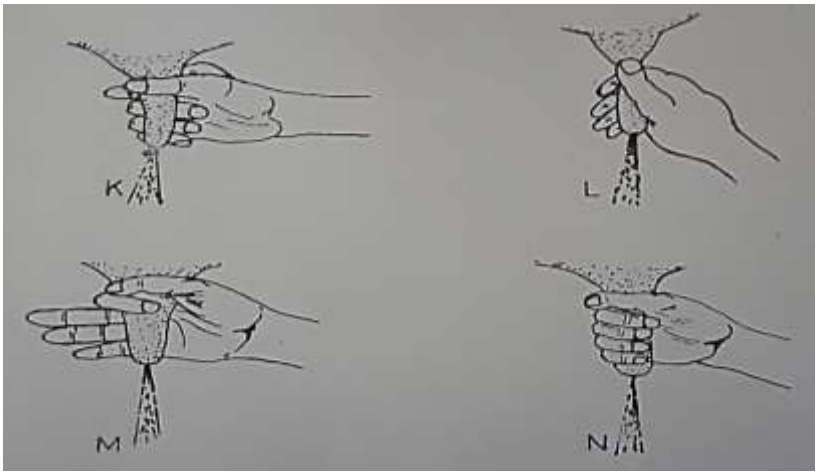


(i) Identify the structure. (½ mk)

ii) Identify the part labeled **U.** (½ mk)

iii)State the maintenance carried out on the structure illustrated above. (1mk)

22. The diagrams K, L, M and N below show four possible ways of drawing milk from the teat of a cow during milking.



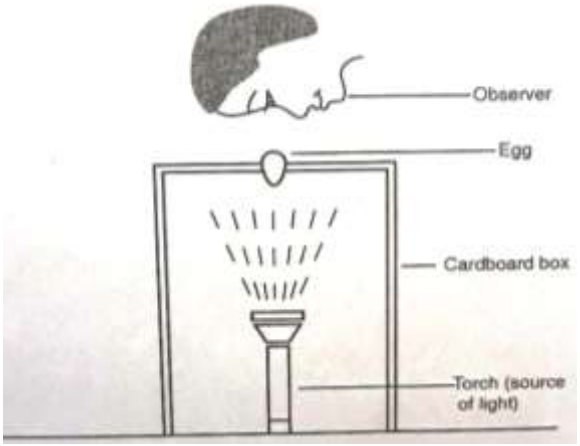
a) Which diagram shows the proper way of drawing milk. (1mk)

b) How long should it take to milk a cow from the start to the end of milking. (1mk)

c) How would a milkman ensure that no milk remains in the udder at the end of milking? (1mk)

d) Give **two** practices carried out on milk immediately after milking. (2mks)

23.Below is an illustration of an activity carried out by a poultry farmer keeping layers



a) Identify the activity carried out using the set-up. (1mk)

b) State **two** abnormalities in eggs that can be detected using the set-up above. (1mk)

c) How can a farmer improve the following?

i. Hardness of egg shells. (½ mk)

ii. Yellowness of the egg yolk. (½ mk)

SECTION C (40 Marks)

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

24.. Describe fish management under the following sub headings

a) Procedure for establishing a pond. 10mks

c) Stocking the pond. 3mks

d) Management practices that would ensure maximum harvest of fish from the pond. 5mks

e) Methods of preserving fish. 2mks

25.a) State the functions of any **six** parts of a plunge dip. (6mks)

b) State and explain **four** factors considered when selecting a breeding stock. (4mks)

c) Explain **five** mechanical methods of controlling ticks. (10mks)

26 a) State **five** advantages of embryo transplant. (5mks)

b) Describe coccidiosis disease under the following sub- headings.

i. Animals attacked (2mks)

ii. Causal organism (1mk)

iii. Symptoms (4mks)

iv. Control measures (3mks)

d) A ration containing 20% DCP for growing chicks is to be obtained by mixing ground maiz containing 10% DCP and fishmeal containing 50% DCP. Calculate the amount of each feedstuff in kilograms required to prepare 200kg of the feed (5mks)

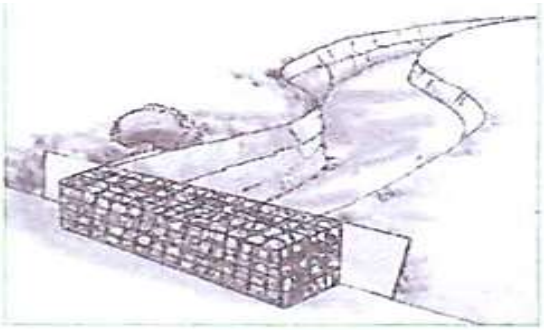
KCSE PREDICTION 3 2022

PAPER 1
SECTION A (30 MARKS)

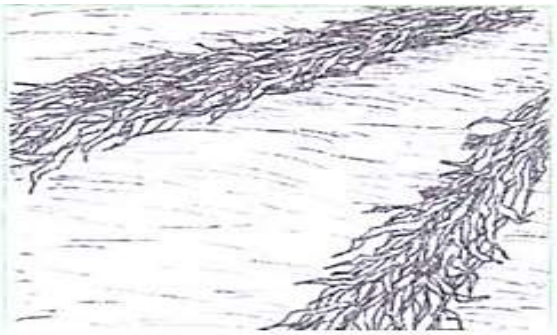
1. State **two** conditions under which opportunity cost is zero. (1mk)
2. Name **three** branches of horticulture. $(1\frac{1}{2}mks)$
3. State **four** factors a farmer should consider when choosing the farming system to undertake. (2mks)
4. State **four** disadvantages of communal land tenure system. (2mks)
5. Give **four** pieces of information found on a land title deed. (2mks)
6. State **four** reasons for deep ploughing during land preparation. (2mks)
7. State **four** characteristics of a good top soil. (2mks)
8. Give **three** reasons for sub soiling. $(1\frac{1}{2}mks)$
9. Differentiate between seed inoculation and seed dressing. (1mk)
10. State **four** effects of soil erosion. (2mks)
11. Outline **four** practices necessary to improve and maintain permanent pastures. (2mks)
12. State **two** causes of poor drainage on farmland. (1mk)
13. State **four** reasons for mulching. (2mks)
14. Give the function of each of the following in the preparation of compost manure. (2mks))
    a) Top soil
    b) Well rotten manure
    c) A thin layer of wood ash
    d) Long pointed stick
15. State **four** deficiency symptoms of phosphorus. (2mks)
16. State **four** characteristics of nitrogenous fertilizers. (2mks)
17. State **four** reasons why a nursery is important in crop production. (2mks)

SECTION B (20 MARKS)

18. The illustrations labelled A and B show some farm structures used in soil and water conservation. Study them carefully and answer the questions that follow.

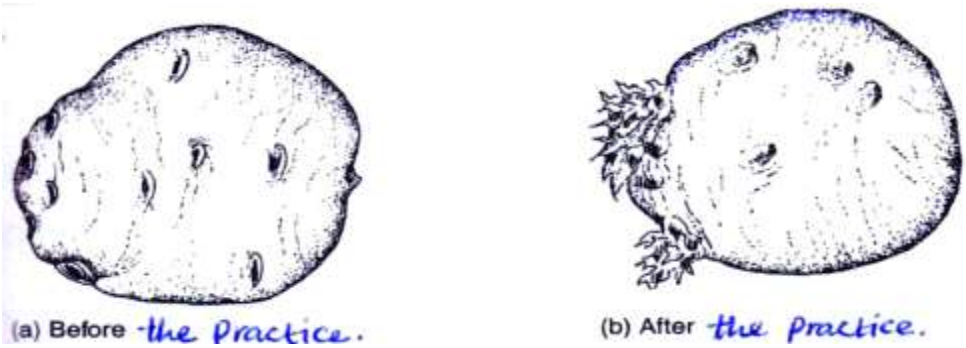


A



B

    a) Identify structures A and B. (1mk)
    b) Name the type of soil erosion controlled by structures A and B. (2mks)
    c) State **two** ways in which the structures help to control soil erosion. (2mks)
19. The diagrams below illustrate irish potato seed preparation before planting. Study it carefully and answer the questions that follow.



a) Name the practice used in preparing the seed potato above before planting. (1mk)
b) Describe the procedure followed in preparing the seed potatoes for planting. (3mks)
c) Give **one** reason for carrying out the practice named above. (1mk)

20. The photograph below shows an irish potato plant attacked by a disease. Study it and answer the questions that follow.



a) Identify the disease represented by the photograph. (1mk)
b) Name the causative agent of the diseases. (1mk)
c) Give **one** other crop that can be attacked by the same disease. (1mk)
d) List **two** control measures of the disease. (2mks)

21. The photographs below show common weeds C and D in pasture land. Study them carefully and answer the questions that follow.



C



D

a) Identify weeds C and D. (2mks)

b) Classify weed D according to plant morphology. (1mk)

c) State the major problem posed by each of the weeds above in pasture land. (2mks)

SECTION C (40MARKS)

22. a) State **four** benefits of sowing annual crops early. (4mks)

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

c) Explain **eight** effects of weeds. (8mks)

23. a) Describe the various field management practices for tomatoes. (8mks)

b) State the precautions that should be observed when harvesting cotton. (4mks)

c)Explain **four** importance of crop rotation. (8mks)

24. a) Explain **four** factors to consider in choosing the type of irrigation to use in the farm. (8mks)

b) Explain **five** farming practices that destroy soil structure. (5mks)

c) Describe **seven** reasons why farmers need to keep good farm records. (7mks)

PAPER 2 (THEORY)

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. State four problems associated with nomadic pastoralism method of farming. **(2 marks)**

2. State one use of the following tools in the farm. **(2 marks)**

a) Spoke shave

b) Pipe wrench

c) Stock and die

d) Wire strainer

3. Name one exotic dairy cattle breed in Kenya which produces milk with:

a) Highest butter fat content. **(1 mark)**

b) Lowest butter fat content. **(1 mark)**

4. Name two dual purpose breeds of dairy cattle reared in Kenya. **(1 mark)**

5. Name two sources of energy concentrates. **(1 mark)**

6. Using Pearson's square method, compute a 100kg ration with 20% DCP from sunflower seed cake which contains 10% DCP and simsim seed containing 60% DCP. **(4 marks)**

7. Name three livestock diseases transmitted by ectoparasites. **(1½marks)**

8. Name an intermediate host for the following internal parasites. **(2 marks)**

a) Tapeworms

b) Liver flukes

9. Give any two reasons for docking in sheep rearing. **(1 mark)**

10. State two functions of the queen in a beehive. **(1 mark)**

11. State three maintenance practices carried out on a piggery unit. **(1½ marks)**

12. State four disadvantages of an electrical fence. **(2 marks)**

13. State four advantages of using a spray race for controlling parasites. **(2 marks)**

14. Give four disadvantages of artificial insemination in livestock production. **(2 marks)**

15. Give any four structural requirements that a calf pen should possess. **(2 marks)**

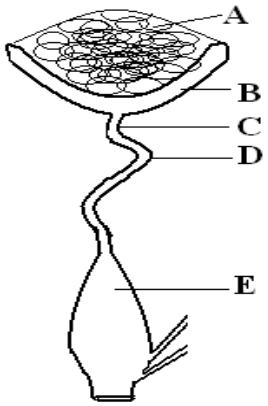
16. List two signs of infertility in cows. **(1 mark)**

17. Give two methods of introducing vaccines to livestock. **(2 marks)**

SECTION B (20 marks)

Answer ALL questions in this section.

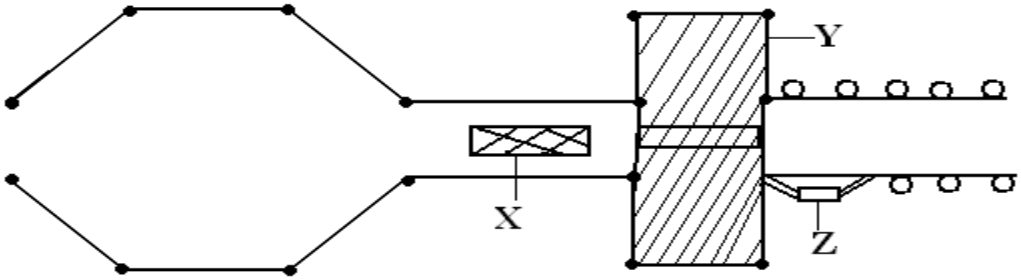
18. Study the diagram below and answer the questions that follow.



(i) Name the parts labelled A, B, C, D and E in the diagram. **(2½ marks)**
(ii) State the function of each part. **(2½ marks)**

19. Give two reasons why a jersey breed cattle is adapted to arid and semi arid areas. **(2marks)**

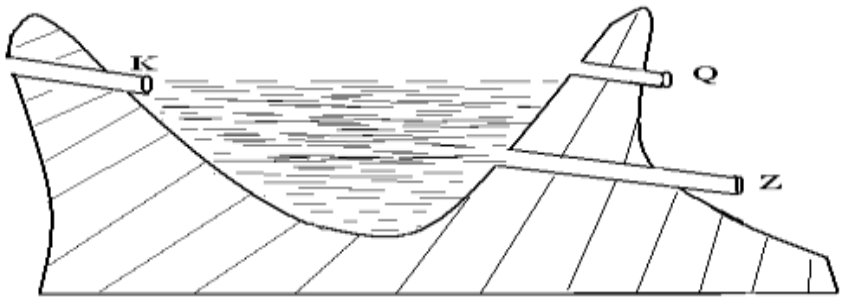
20. The diagram below represents an aerial view of a farm structure. Study it carefully and answer the questions that follow.



a) Identify the structure. **(1 mark)**
b) Name the parts labeled X, Y and Z. **(3 marks)**
c) List two roles of the part labeled Y. **(2 marks)**

21. Give two reasons for carrying out hoof trimming. **(1 mark)**

22. The illustration below is a farm structure.



a) Identify the structure. **(1 mark)**
b) Name the parts labeled K, Q and Z. **(3 marks)**
c) Give four maintenance practices carried out on the above structure. **(2 marks)**

SECTION C (40 MARKS)

Answer ANY TWO questions in this section

23. a) Give five functions of vitamins in livestock production. **(5 marks)**
b) Describe the importance of colostrum to young animals within the first week of birth. **(10 marks)**
c) Outline five advantages of embryo transplant technology in cattle management. **(5 marks)**

24. a) Mention four methods of water harvesting. **(4 marks)**

b) Describe the different types of micro catchments used in water conservation. **(10 marks)**
c) Explain the importance of micro catchments. **(6 marks)**

25. a) Outline ten factors to consider when selecting gilt for breeding stock. **(10 marks)**
b) Explain the economic importance of parasites to livestock animals. **(10 marks)**

KCSE PREDICTION 4 2022

PAPER 1

SECTION A (30 MARKS)

Answer ALL questions in this Section in the spaces provided

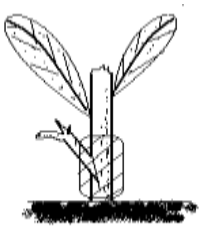
1. Outline **two** ways in which agriculture promotes industrial growth in Kenya (1mk)
2. State **four** factors considered when choosing a farming system. (2mks)
3. Give **four** natural factors that encourage soil erosion. (2mks)
4. List any **four** ways in which soil is deprived of its fertility. (2mks)
5. State **four** factors considered when selecting a site for a tomato nursery bed. (2mks)
6. State **four** reasons for intercropping. (2mks)
7. Give **four** advantages of intensive farming. (2mks)
8. Give **four** reasons why land should be prepared early in readiness for planting. (2mks)
9. State f**our** reasons for deep ploughing during land preparation. (2mks)
10. State **two** reasons for conserving forage crops. (1mk)
11. Name **two** types of labour records kept in the farm. (1mk)
12. Give **two** ways in which mulch control soil erosion. (1mk)
13. Define the following terms as used in soil fertility. (2mks)
    a) Macro nutrients
    b) Micro nutrients
14. a) State **four** roles of Nitrogen as a macro nutrient in plant nutrition. (2mks)
    b) Give **two** methods that can be used to detect nutrient deficiency in crops. (2mks)
    c) Name **two** ionic forms through which element Nitrogen is absorbed by plants. (2mks)
15. Give **four** factors considered when classifying crop pests. (2mks)

SECTION B (20 Marks)
Answer ALL questions in this section in the spaces provided

16 .The following illustrations show different production function curves in agricultural economics. Study them and answer the questions that follow

a) Identify the production function curves A and B. (2mks)
b) State the law derived from the production function labelled C. (1mk)
c) i) Which one of the three production function curves is rare in Agriculture? (1mk)
d) ii) Give a reason for your answer in (c) (i) above. (1mk)

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


A

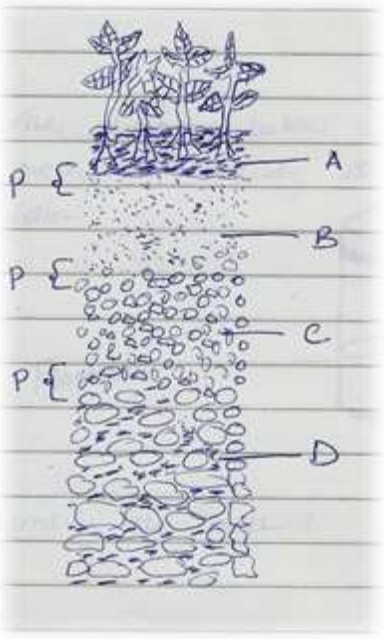

C


B

a) Name the types of grafting labeled A and C. (2mks)
b) Name any **two** crops propagated by method C. (2mks)
c) Give any **two** tools or materials used in propagation method C. (2mks)
d) Give **four** advantages of using grafting method as a method of improving avocado fruits. (2mks)

18. Calculate the plant population in a 5.4 hectare plot of a bean crop planted at the spacing 45cmx 20cm. Assume one plant per hole. (3 mks)

19. 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. (1mk)
b) What is the name given to part labeled P (1mk)
c) Give a reason why part B is also referred to as layer of accumulation. (1mk)

SECTION C

Answer any TWO questions from this section

20. a) Explain **ten** ways in which the Kenyan government can improve maize production to ensure food security in the country. (10mks)

b) Explain **six** ways in which soil fertility can be maintained. (6mks)

c) Highlight **four** reasons for pruning coffee. (4mks)

21. a) Explain **eight** cultural methods of soil and water conservation. (8mks)

b) Explain **four** ways in which:

i) HIV/AIDS limits agricultural production (4mks)
ii) Government policy improves agricultural production. (4mks)

c) Explain the factors considered when choosing an irrigation method in crop production. (4mks)

22. a) Describe **six** factors that determine the stage of harvesting crops. (6mks)

b) Describe the production of carrots under the following subheadings:

i) Planting (3mks)
ii) Field management (6mks)
iii) Harvesting (2mks)

c) Describe **three** importance of agroforestry. (3mks)

PAPER 2

SECTION A: (30 MARKS)

1. State four external predisposing factors of livestock diseases. (2 mks)
2. Differentiate between mothering ability and prolificacy in livestock. (2 mks)
3. State two distinguishing external characteristics of California white rabbit. (2 mks)
4. State four causes of infertility in dairy cattle. (2 mks)
5. State the functions of the following hormones in livestock:- (1 mk)

   (a) Oxytocin …….

   (b) Stilbestrol ……..
6. State two reasons for clipping the upper beak in poultry management. (1 mk)
7. Name the set of tools used for the following farm operations.
   (a) Controlling bloat ……. (1 mk)

   (b) Restraining an animal during agricultural show exhibition. (1 mk)
8. Name three types of calf pens that can be constructed on a farm. (1 ½ mks)
9. Give three reasons why honey harvesting is discouraged at night. (1 ½ mks)
10. Outline four uses of the gear box in a tractor. (2 mks)
11. Give the importance of each of the following rearing practices in calves.
    (i) Single housing of calves - (1 mk)
    (ii) Removal of extra teats - (1 mk)
12. List four essentials of clean milk production. (2 mks)
13. Give two features that enable the gizzard to carry out its functions effectively.(1 mk)
14. Give the appropriate term used to describe the following in chicken:-

    (i) From hatchery to 8 weeks …….

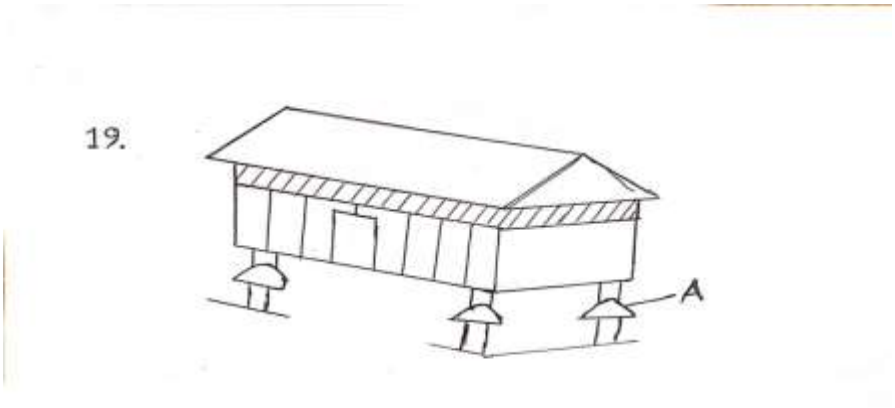
    (ii) Rendered Sterile ……..

    (iii) Reared for meat ……..

    (iv) Female from 8 weeks to point of lay …….
15. State four reasons that make a farmer castrate his/her billy. (2 mks)
16. List three protozoan diseases that are spread by vectors. (1 ½ mks)
17. Mention three methods of selection in livestock breeding. (1 ½ mks)
18. List two diseases that attack bees in a colony. (1 mk)

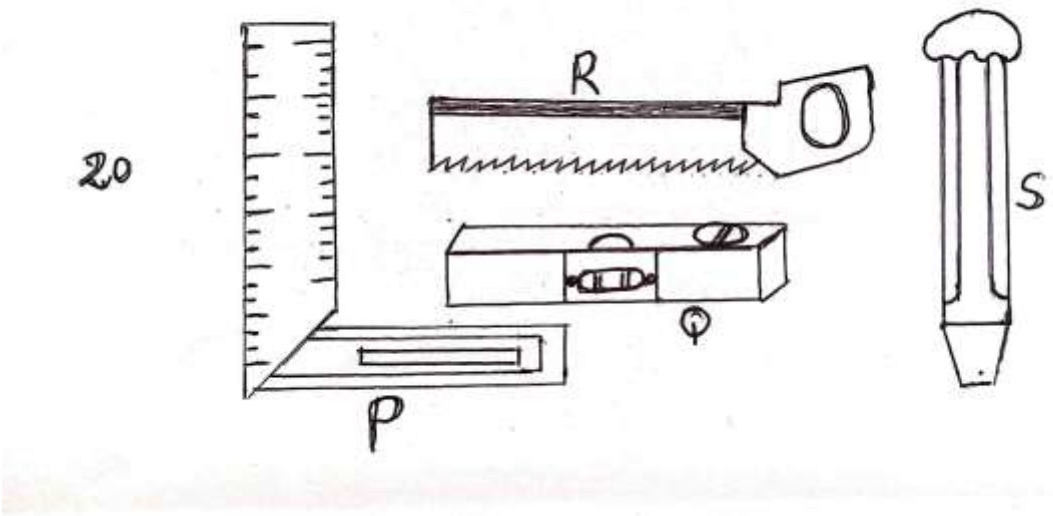
SECTION B: (20 MARKS)
Answer all the questions in the spaces provided.

19. Below is a diagram of a grain store.



(a) Name the part labeled A. (1 mk)
(b) State one maintenance practice to be carried out before introducing a new produce.
(c) Why is it important to have some open spaces on the walls of the store. (1 mk)
(d) Besides the store having open spaces, state two characteristics that make the store suitable for storing grains. (2 mks)

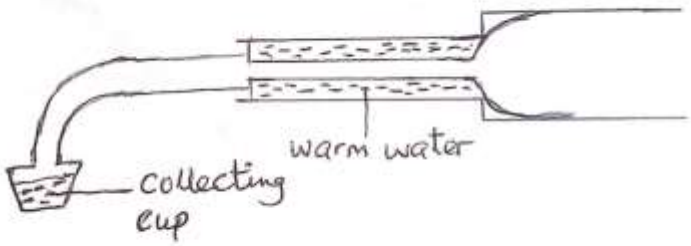
20. Study the diagrams below of some workshop tools and then answer the questions.



(a) Identify the tools P, Q, R and S.
(b) Give one use of tools P and R in the construction of a wooden feed trough.(2 mks)
(c) How would the tool labeled Q be used in the construction of a calf pen? (1 mk)

21. The illustration below shows livestock production equipment. Study it and answer the questions that follow.

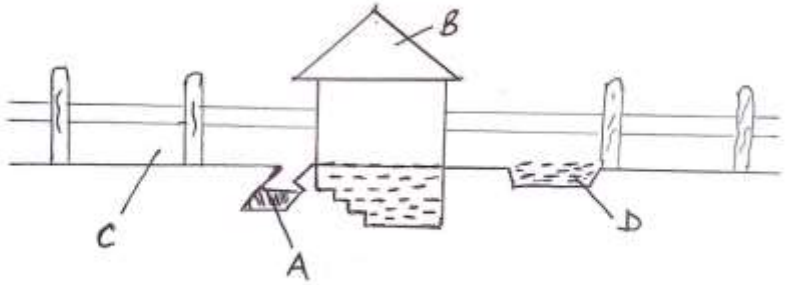
21



(i) Identify the equipment. (1 mk)
(ii) What is the importance of warm water in the equipment. (1 mk)
(iii) Describe the procedure followed when using the equipment in collection semen.

22. The diagram below shows a cross-section of a plunge dip. Use it to answer the questions that follow.

22



(i) Name the parts labeled A and B. (2 mks)
(ii) State the use of parts A and D. (2 mks)
(iii) State one advantage of holding cattle for some time in C. (1 mk)

SECTION C: (40 MARKS)
Answer any two questions in this section.

23. (i) Describe the life cycle of a two host tick. (5 mks)
(ii) Outline five maintenance practices carried out on tractor battery. (5 mks)
(iii) Discuss five factors considered when siting a fish pond. (10 mks)
24. (a) Explain the operational differences between a disc plough and a mouldboard plough. (10 mks)
(b) Explain the procedure used when constructing a barbed wire fence. (10 mks)
25. (a) Describe the management of day-old chicks to the point of laying. (14 mks)
(b) Describe the precautions that should be taken when handling bees. (6 mks)

KCSE PREDICTION 5 2022
PAPER 1
SECTION A 30 MARKS

1. Name **two** physical agents of weathering (1 marks)
2. Outline **three** methods of breaking seed dormancy (1 ½ marks)
3. List **two** signs shown by crops when they are attacked by nematodes (1 marks)
4. Distinguish between soil structure and soil texture (2 marks)
5. State any **three** examples of working capital (1 ½ marks)
6. What is Land reform: (1 mark)
(b) State any **four** methods of land reform (2 marks)
7. Mention **four** ways in which losses may be incurred during hay making. (2marks)
8. Give **two** precautions taken to ensure good crop establishment during planting. (1mark)
9.(a) Define inventory records. (1mark)
b). State **four** pieces of information that is contained in health records. (2marks)
10**)a.** List **four** problems associated with nomadic pastoralism in Kenya. (2marks)
(b) Name **four** factors of production in agriculture. (2marks)
11. List **two** farming practices that can be carried out to increase the amount of light harnessed by crops. (2marks)
12 State **four** reasons why land is prepared before planting (2marks)
13. Give **one** reason in each case why the following tertiary operations are important. (3marks)
    i) Ridging
    ii) Rolling
    iii) Leveling
14. Distinguish the following terms as used in pasture management. (2marks)
    a. Intensity of defoliation
    b. Frequency of defoliation
15. What does the term 'close season' in crop production mean? (1mark)

SECTION B ANSWER ALL QUESTION

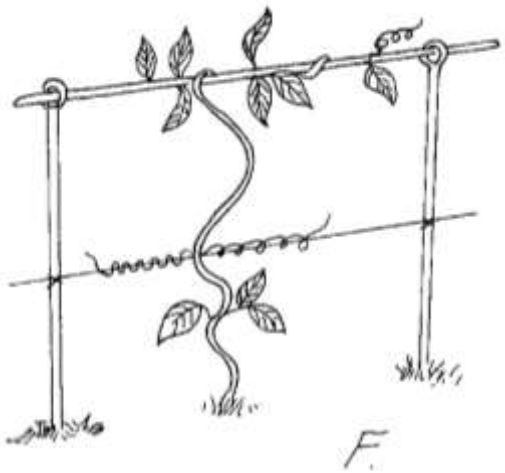
16. Use the following crops to answer the questions that follow.


D


E

a) Name the crops labelled D and E above. (2mark)
b) Why is crop D rarely destroyed by pests in the stores? (1mark)
c) Name any **two** diseases that affect crop E. (2marks)

17. The diagram F, below illustrates a method of training in crops.

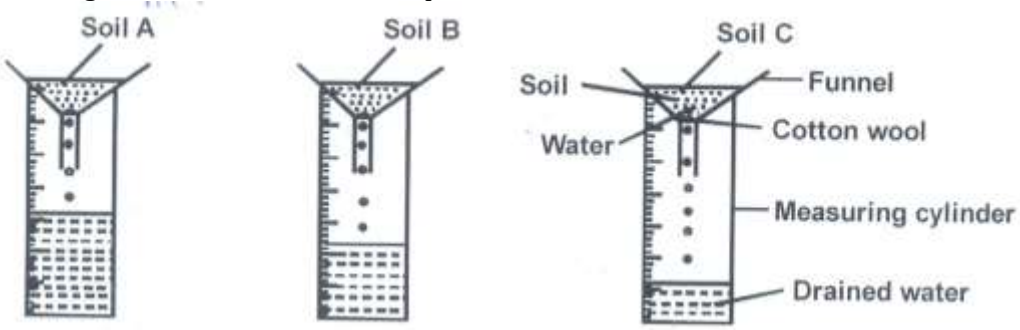


i) Identify the method shown in F above. (1mark)
ii) Name **two** other methods used in training in crop production. (1mark)
iii) State **two** advantages of training in crop production. (2mark)
iv) List **two** crops that require training. (1mark)

18.**a)** Describe the procedure which should be followed in spraying a crop of tomatoes using a fungicide in powder form, water and knapsack sprayer. (3 marks)

(b) State **two** safety measures that should be taken while spraying the crop with fungicide (2 marks)

19. The diagram below illustrate an experiment on soil



a) State the aim of the experiment (1 mark)

b) If the volume of water illustrated in the measuring cylinder was observed after one hour.
Identify the soil sample A and B
Soil A…….. (1 mark)
Soil B…….. (1 mark)

c) State **<u>two</u>** ways in which the soil structure of the sample labelled c above can be improved. (2 marks)

SECTION C 40 MARKS
ANSWER ONLY TWO QUESTIONS

20. a) Giving one example in each case, identify **three** classes of crop diseases. (6marks)
b) Describe the physical measures of disease control in crops. (10marks)
c) Identify the factors affecting the efficiency of pesticides (4marks)

21).Describe the production of tomatoes (Lycoperiscon esculentum) under the following subheadings.
(a) Ecological requirements (4marks)
(b) Nursery establishment (4marks)
(c) Transplanting (4marks)
(d) Seed bed preparation (4marks)
(e) Field management practices (4marks)

22. a) State and explain **<u>five</u>** agricultural services available to farmers. (10marks)
b) Explain the ways in which labour efficiency can be increased in the farm (5marks)
c) State any **five** measures which are taken to minimize water pollution In the farm. (5marks)

PAPER 2

ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACE PROVIDED.

1. Name one breed of livestock under each of the following categories. (2mks)
   a) Dairy cattle breeds.
      ……
   b) Dual purpose sheep breeds.
      ……
   c) Dual purpose cattle breeds.
      ……
   d) Hair goat.
      ……
2. State two importance of litter in a poultry house. (1mk)
   ……
3. State one way of connecting a trailer to a tractor. (1mk)
   ……
4. State two functions of the crop in the digestive system of poultry. (1mk)
   ……
5. State the functional differences between the following. (2mks)
   a) Cross cut saw and rip saw.
      ……
   b) Wood chisel and cold chisel.
      ……
6. State four functions of the worker bees in a bee colony. (2mks)
   ……
   ……
7. State four maintenance practices carried out on a fish pond. (2mks)
   ……
   ……
8. Give the meaning of the following terms as used in livestock breeding.
   a) Close breeding. (2mks)
      ……
   b) Line breeding
      ……
   c) Out crossing.
      ……
   d) Cross breeding.
      ……
9. State four egg abornomalities observed during egg candling. (2mks)
   ……
   ……
10. Give four reasons why an animal may be culled. (2mks)
    ……
    ……
11. Give the meaning of the following terms as used in livestock health. (2mks)
    a) Predisposing factors.
       ……
    b) Incubation period.
       ……
12. Name two appropriate hand tools needed to finish the handle of a jembe. (1mk)
    ……
13. State four ways of controlling lice in poultry. (2mks)
    ……
    ……
14. State four limitations of a tractor as a source of power on the farm. (2mks)

……
……

15. State four reasons for feeding a lamb on colostrum. (2mks)
……
……

16. State four disadvantages of fold systems in poultry rearing. (2mks)
……
……

17. State four ways in which disease causing organism can gain access into an animal. (2mks)
……
……

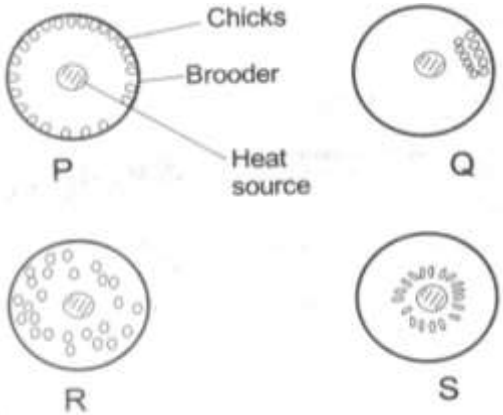
SECTION B (20 MARKS)

ANSWER ALL THE QUESTIONS IN THE SPACAES PROVIDED .

18. a) A farmer is required to prepare 200kg of dairy meal containing 16% DCP. Using the pearson's square method, Calculate the quantity of sunflower seed cake (28% DCP) and maize germ (8 % DCP) the farmer requires for the dairy meal. (Show your working). (4mks)

b) Apart from the method used above, name the other method used in computation of feed rations. (1mk)
……

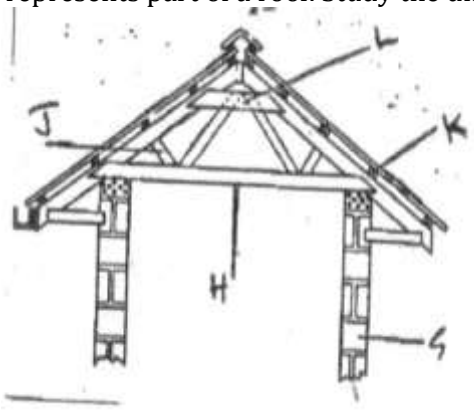
19. The diagrams below illustrate behavior of chicks in a brooder.



a) Describe the behavior of chicks in brooders labeled Q,R and S. (3mks)
……
……

b) State two other observable behavior of chicks in brooder labeled P other than the behavior shown above. (2mks)
……

20. The diagram below represents part of a roof. Study the diagram and answer the questions that follow

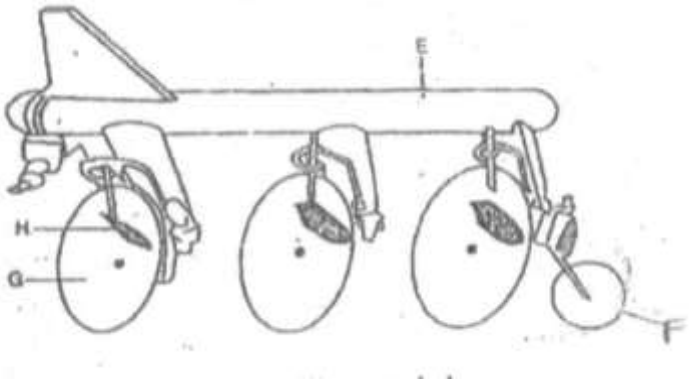


a) Name the parts G, H, J and K. (2mks)
G……
H ……
J ……
K ……

b) State two functions of the roof illustrated above. (1mk)
……

c) Give the collective term for the parts labeled H, J and L. (1mk)
……

21. Study the illustration below and answer the questions that follow.



a) Identify the implement illustrated above. (1mk)
……

b) Name the part labeled E,F,G and H. (2mks)
E ……

F ……

G ……

H……

c) State two ways in which the depth of ploughing can be increased when using the implement above. (2mks)
……
……
……

SECTION C (40 MARKS)
ANSWER ANY TWO QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.

22. a) Outline the daily maintenance practices that should be carried out on a farm tractor. (10mks)
b) Describe the body conformation features of a dairy cattle. (5mks)
c) State five reasons for maintaining livestock healthy. (5mks)

23. a) Describe how a four stroke cycle petrol engine works. (8mks)
b) State and explain any six factors that should be considered when sitting farm structures. (12mks)

24. a) Describe mastitis in dairy cattle under the following subheadings.
i. Predisposing factor. (4mks)
ii. Symptoms of attack. (3mks)
b) Outline eight symptoms of tape worm infestation in cattle. (8mks)
c) State five ways of stimulating a cow for milk let down. (5mks)

KCSE PREDICTION 6 2022
PAPER 1

1.Name two situations under which irrigation is practiced (1mk)
……
……
……

2.Give a reason why ranching is an improvised pastoral nomadism (1mk)
……
……
……

3.State two ways by which a soil of PH 3 can be raised to a PH of 6 (1mk)
……
……
……

4.Outline two effects of adding organic matter to sandy soil (1mk)
……
……
……
……..

5.State four functions of young farmers club in schools (2mks)
……
……
……
……

6.Distinguish between a perfect and imperfect market. (1mk)
……
……
……
……
……
……
……
……
……..

7.Name four financial documents used in the farm (2mks)
……
……
……
……
……

8..State four factors that determine the depth of planting (2marks)
……
……
……
……

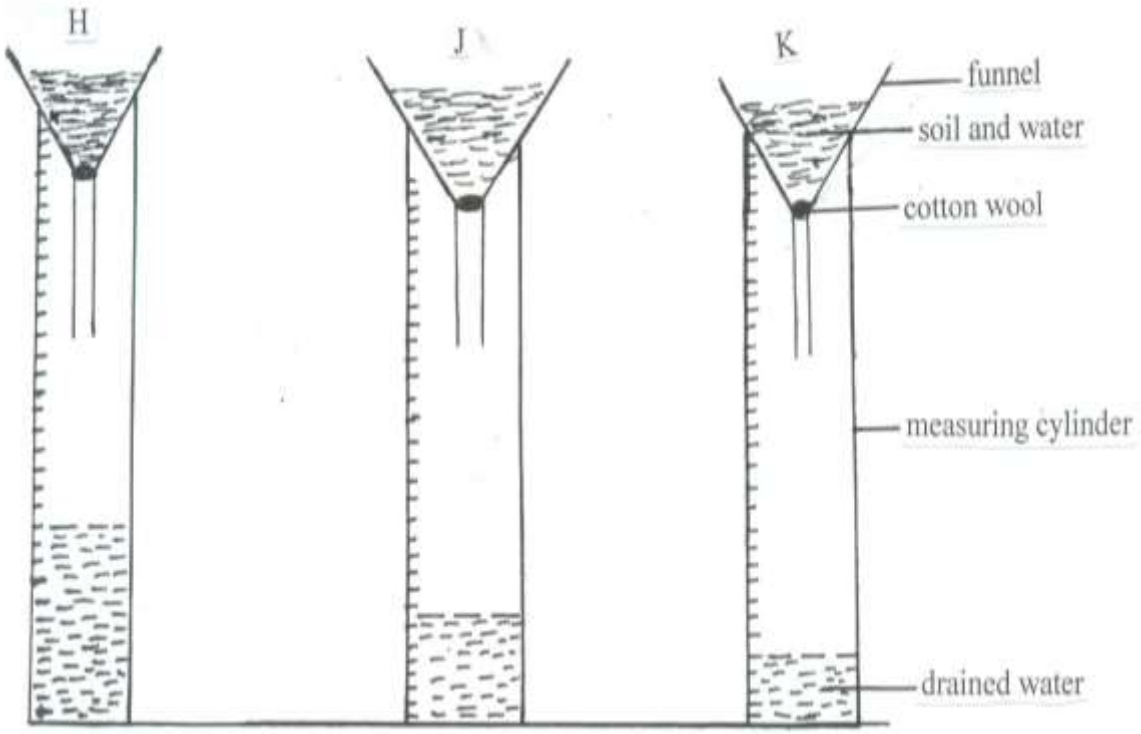
9.State four minimum tillage practices (2marks)
……
……
……

10.Give four ways of improving labour productivity on a farm (2mks).
……
……

……
……
11 State four forms of agroforestry .(2mks)
……
……
……..
12.A farmer plants maize on his piece of land measuring 40m by 30m at a seed rate of I seed per hole. If he used a spacing of 75cm by 25cm, Calculate this plant population.(2marks).
……
……
……
……
……
13.State four reasons for conserving forage (2marks)
……
……
……
……
14.Give four benefits of a land title deed (2mks)
……
……
……
……
15.State four steps of gully formation (2mks)
……
……
……
……
……
16.State two characteristics of a good root stock for grafting (1mk)
……
……
……
17.State two main causes of silage loses (1mk)
……
……
……
……
18.State four aims of land settlement programmes in Kenya (2mks)
……
……
……
……
19.Give two factors that influence the stage at which crop is harvested(1mks)
……
……
……
……

SECTION B(20MARKS)

20.The illustrations below represent an experiment to compare the porosity and water holding capacity of three types of soils. Carefully study the experiment and then answer the questions that follow



(a) Identify the soil in each of the funnels labeled (3marks)

H ……..

J……

K……..

(b) Which of the three types of soil can be said to have the highest porosity rate?(½ mk)

……

……

(c) Which type of soil would be suitable for planting paddy rice? (½mk)

21.The diagrams below represent some panicles of varieties of Sorghum crop growing in the field. Study them carefully and answer the questions that follow.

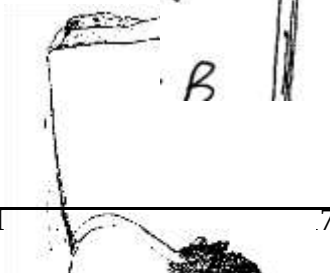
Variety A



Variety B



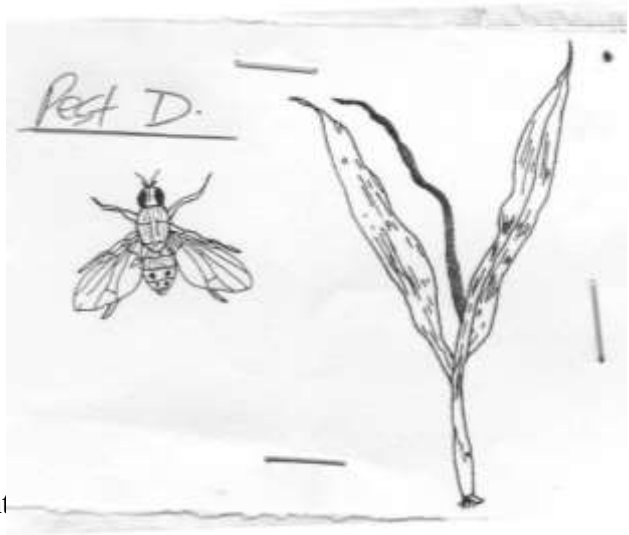
Variety C



a) Identify the types of panicles in each of the varieties represented by A,B and C
Variety A…….(1mark)
Variety B……..(1mark)
Variety C……(1mark)

b) Which of the varieties named in (a) above is less easily damaged by bird pests(1mrk)
…….

c) The diagram below represents a pest labeled D that infests Sorghum plants during early stages of establishment



i) Iden
…….(1mark)

ii) State two methods of controlling the pest named in C(i) above (2marks)
……
……
……

22.Study diagram below and answer questions that follow.



(i) Name the farming practice illustrated above.(1mark)
……

(ii) Give the procedure followed to carry out the practice you have named in (i) above (3marks)
……
……
……
……
……
……
(iii) state the importance of carrying out the farming practice named above. (1 mark)
……
……

23.The diagram below shows common weeds, study them and answer the questions that follow.



a) Identify the weeds J and K. (2marks)

J……..
K…….

b) State the effects of weed labeled Jto livestock. (1 mark)

c) Give **one** reason why it is difficult to control the weed labeled L? (1 mark)

SECTION C (40 MARKS)

Answer ***only two*** questions in this section in the spaces provided.

24.Describe the production of onions under the following sub headings
a.Ecological requirements (4 marks)
b.Planting (5 marks)
c. Field practices (4 marks)
d Harvesting and marketing (7 marks)

25a.Outline eight uses of farm records (8 marks)
b.Explain the various ways by which a farmer can adjust to risks and uncertainties (6 marks)
c. State precautions taken when harvesting pyrethrum (6mks)

26a.Explain five causes of land fragmentation in Kenya since independence (5 marks)
b.Describe the advantages of land consolidation and registration. (8 marks)
c.Explain the objectives of land reform under taken in Kenya. (7 marks)

PAPER 2

Section A (30marks)

1. Give **two**reasons for docking in sheep production. (1mk)

   ……
   ……

2. Give **four** ideal qualities of a good calf pen (2mks)

   ……
   ……
   ……
   ……

3. Outline **four** characteristics of Romney marsh sheep breed (2mks)

   ……
   ……
   ……
   ……

4. (a) State **two** disadvantages of using metal frames in construction of farm buildings(1mk)

   ……
   ……

   (b) Give **two** reasons for seasoning timber (1mk)

   ……
   ……

5. Outline **four** reasons for swarming of bees (2mks)

   ……
   ……
   ……
   ……

6. List **two** methods that can be used to preserve fish (1mk)

   ……
   ……

7. (a) What is a notiafiable disease?(1mk)

   ……
   ……

   (b) Name **four** examples of notifiable diseases in livestock (2mks)

   ……
   ……
   ……
   ……

8. Name**two**major physical differences between Bactrian and Dromedary breeds of camel. (1mk)

   ……
   ……..

9. State **two** characteristics of heavy poultry breeds (1mk)

   ……
   ……

10. List **two** maintenance practices of a wood chisel (1mk)

    ……
    ……

11. State **four** ways of controlling tsetse flies (2mks)

    ……
    ……

……
……

12. State **four** characteristics of livestock roughage feedstuff (2mks)
……
……
……
……

13. List **two** equipment used in handling cattle during agricultural exhibition (1mk)
……
……

14. State the gestation period of the livestock animals given below
(a) rabbit (½mk)
……
(b) goat (½mk)
……

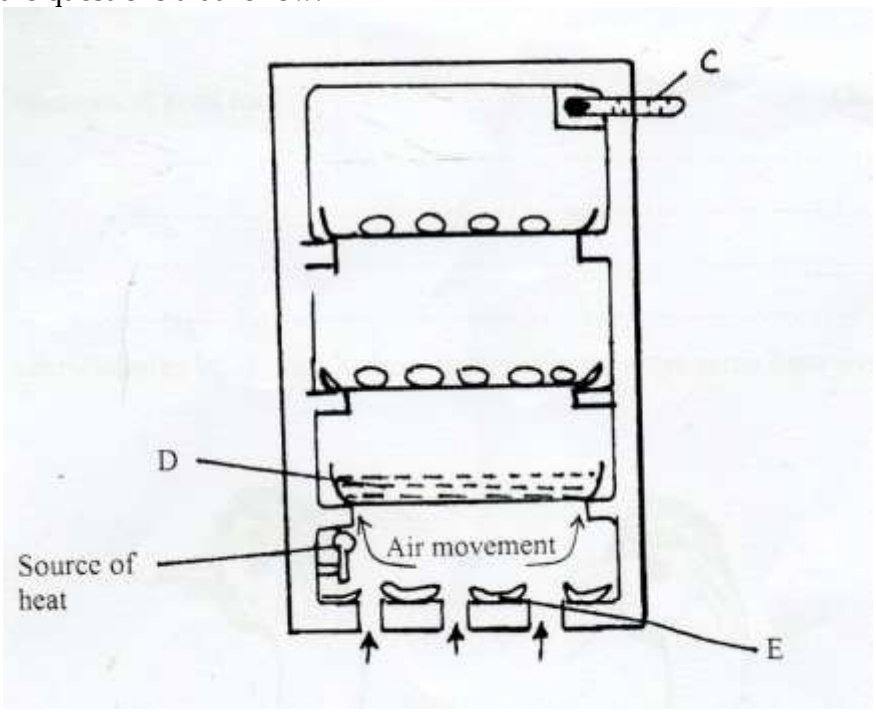
15. State **four** disadvantages of natural mating (2mks)
……
……
……
……

16. State **one** egg content added to it at the magnum during egg formation process(1mk)
……

17. State **four** methods used to control cannibalism in a deep litter system (2mks)
18. (a) Give **three** uses of Biogas in the farm(1 ½ mks)
(b) State **three** reasons why the use of wind power on the farm is limited(1 ½mks)

Section B: (20marks)
Answer ALL questions in this section.

19. (a) The illustration below represents equipment used in poultry production. Study it carefully and answer the questions that follow:



i) Identify the equipment illustrated above. (1mk)
……

ii) Name the parts labeled C,D and E on the diagram of the equipment illustrated on the equipment in a) above (1 ½mks)

C …….

D …….

E ……..

iii) What are the functions of the parts labeled C,D and E (3mks)

C …….

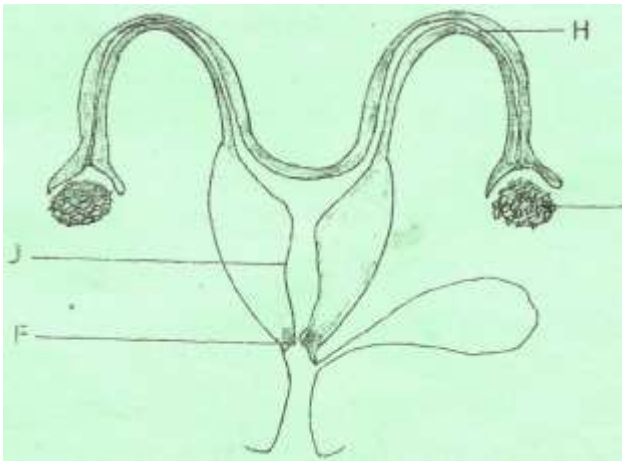
D……..

E……

(iv) Why is it important to turn the eggs around 180 oc every 6- 8 hours? (1mk)

……

(b).The diagram bellows shows the reproductive system of a cow. Study it and answer the questions that follow



(i) Name the parts labeled J , F and H. (1.5mks)

J ……..

F ……..

H ……

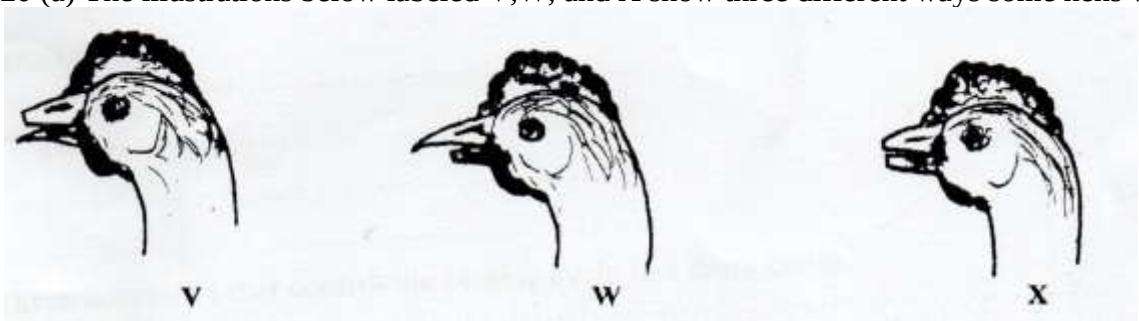
(ii) State one function of each of the parts labeled J and H

J …….. (1mk)

H …… (1mk)

(iii) Name three reproductive hormones in dairy cattle (3mks)

20 (a) The illustrations below labeled V,W, and X show three different ways some hens were debeaked.



i) Which hen was correctly debeaked ? (1mk)

ii) state two reasons for your choice in (i) above (1mk)

(b) Name any two tools which would be used for debeaking. (2mks)

21. Boran Dam X FRIESIAN SIRE – f1 heifer x charolais

(a) What type of breeding system is shown above? (1mk)

……

(b) Why would you recommend such a breeding system? (1mk)

……

(c) What characteristic in the heifer are you improving by using such a breeding system? (1mk)

……

SECTION C: (Answer any two questions)

22 (a)outline ten differences between a tractor drawn mould plough and an ox mouldboard(10mks)

(b) describe management of growers to point of lay (10mks)

23. (a) (i) Give three factors considered in siting a farm structure (3mks)

(ii) Describe the functions of each of the following parts of a plunge dip (7mks)

(a) Foot bath
(b) Entrance race
(c) Roof
(d) Drainage race
(e) Jump
(f) Dip tank
(g) Exit step

(b) Describe the procedure of constructing a barbed wire fence (10mks)

24. (a) (i) Give three factors affecting the amount of food given to an animal (3mks)

(ii) State and explain seven essential of clean milk production (7mks)

(b) Describe digestion of grass in the rumen of a cow (10mks)

KCSE PREDICTION 7 2022

PAPER 1

SECTION A (30MARKS)

Answer All the questions in this section in the spaces provided

1. Name **two** methods of farming that are considered outdated **(1mark)**

   ……
   ……

2. State **three** symptoms of potassium deficiency in plants **(1 ½ marks)**

   ……
   ……
   ……

3. State **two** ways of controlling late blight in tomatoes **(1marks)**

   ……
   ……..

4. Name **three** financial documents in farm accounts **(1½ marks)**

   ……
   ……
   ……

5. State **four** farming practices which can enhance proper light penetration in a crop. **(2marks)**

   ……
   ……
   ……
   ……

6. Give **four** factors which determine the method of weed control in crop production **(2marks)**

……
……
……
……

7. State **four** causes of seed dormancy **(2marks)**

……
……
……
……
……

8. List **four** effects of weeds on pastures **(2marks)**

……
……
……
……
……

9. State **four** qualities to be considered when selecting seeds for planting **(2marks)**

……
……
……
……
……

10. State **three** farming practices which may lead to multiplication of pests **(1 ½ marks)**

……
……
……
……

11. Give **three** pieces of information to be found in a master roll **(1 ½ mark)**

……
……
……

12. State **three** objectives of land reform **(1 ½ marks)**

……
……
……
……

13. Why is it important to weed early in crop production **(2marks)**

i) ……
……
ii) ……
……

14. State **three** effects of late defoliation in pasture management **(1½ marks)**

……
……
……

15. Differentiate between undersowing and oversowing as used in forage Production. **(2marks)**

……
……
……

16. State **three** functions of a farm manager **(1½ marks)**

……
……
……..

17. State **two** ways of overcoming the effects of excess water in crop production. **(2marks)**

……
……
……

18. Give **three** symptoms of viral infections in crops **(1 ½ marks)**

……
……
…….

SECTION B (20MARKS)

Answer All the questions in this section in the spaces provided

19. (a) A farmer planted seeds at the rate of one seed per hole at the spacing of 90cmx30cm in his piece of land measuring 120m x100m.Calculate the plant population in the whole field if all the seeds germinated (show your working) **(2marks)**

……
……
……
……
……

(b) State how the following factors influence spacing in crops **(2marks)**

(i) Fertile soil

……
……

(ii) High moisture content in the soil

……
……

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



a) Identify the feature that the diagram above represents **(½ mark)**

……
……

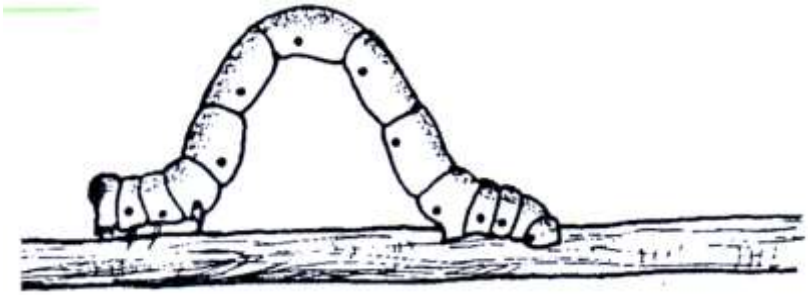
b) Name the parts of the diagram labeled B,C and D **(1½ mark)**

B……
C…….
D…….

c) Outline three characteristics of the part labeled A **(3marks)**

……
……
…….

21. Use the diagram below of a pest to answer the questions that follow



i) Identify the pest **(1mark)**

…….

ii) Name the crop and part attacked by the pest **(2marks)**

Crop	Part attacked

iii) Mention the most suitable method of controlling the pest **(1mark)**

……

22. (a) Describe the harvesting of sugar cane **(3marks)**

(b) List any **two** diseases of sugar cane **(2marks)**

SECTION C(40MARKS)

Answer any two questions from this section in the spaces provided

23. a) Describe the production of dry beans under the following subheadings

i) Land preparation **(4marks)**

ii) Planting **(6marks)**

iii) Control of Anthracnose disease **(5marks)**

(b) Outline five advantages of planning and budgeting in agriculture **(5marks)**

24. (a) Explain the cultural methods of soil and water conservation **(10marks)**

(b) State and explain how various practices carried out in crop production help to control pests **(10marks)**

25. Study the table below showing quantities of fertilizers used and yield of maize obtained over a period of years and answer the questions that follow.

Land (in ha)	DAP fertilizers (in 20kg units)	Yield (90kg bags)	Marginal production(mp) (in 90 kg bags)	Average production(AP) (in 90 kg bags)
1	0	2		
1	1	10		

1	2	24		
1	3	42		
1	4	56		
1	5	62		
1	6	60		
1	7	56		

(a) i) Fill in the marginal and average product columns in the table **(4marks)**
ii) Using the graph paper provided draw the production function curve **(6marks)**
iii) Show the three zones of production on the graph **(3marks)**
b) Outline any **seven** activities carried out in organic farming **(7marks)**

PAPER 2

SECTION A (30MARKS)

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

1. a) List **two**dual purpose breeds of sheep. **(1mark)**

……
……

b) Give **two** advantages of keeping a Jersey cow instead of a Friesian. **(1mark)**

……
……

2. Give **two** importance of keeping health records in a farm. **(1mark)**

……
……

3. a) What is pica as used in livestock production. **(½mark)**

……
……

b) State **three** importance of keeping livestock healthy. **(1½marks)**

……
……..
……
……

4. Name an intermediate host for each of the following parasites.

i) Tapeworm (*Taeniasolium*) **(½mark)**

……
……..

ii) Liver Fluke (*Fasciola hepatica*) **(½mark)**

……
……

5. a) Name the type of breeding system represented below. **(½mark)**

Ayrshire Sire **x**Boran Dam ⟶ F1 Heifer x Hereford

……

b) Outline **two** characteristics of livestock that are used in mass selection. **(1mark)**

……
……

6. State **four** management practices that would ensure maximum harvest of fish from a fish pond. **(2marks)**

……
……..

……
……

7. Distinguish between crutching and ringing as used in livestock production. **(1mark)**

……
……

8. Give **four** reasons why young Lambs should be docked **(2marks)**

……
……..
……
……

9. a) State **three** disadvantages of natural incubation in poultry production **(1½marks)**

……
……
……
……

b) Why is it necessary to supplement domestic poultry diet with grit? **(½mark)**

……
……..

10. Name **four** properties of a good vaccine **(2marks)**

……
……..
……
……

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

……
……..
……
……

12. Name **two**Larval developmental stages of liver fluke that occur outside the intermediatehost. **(1mark)**

……
……..

13. List **four** methods of preserving fish after harvesting. **(2marks)**

……
……..
……
……

14. Mention **three** ways that indigenous livestock farmers use to improve their cattle. **(1½marks)**

……
……
……
……

15. Differentiate between

i) Gilt and Sow **(1mark)**

……
……..

ii) Marking gauge and mortise gauge. **(1mark)**

……
……..

16. Outline **three** possible causes of damage to the hide of cattle when the animal.**(1½marks)**

……
……
……
……

17. Highlight **three** functions of ventilation in an animal house. **(1½marks)**

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……..
……
……

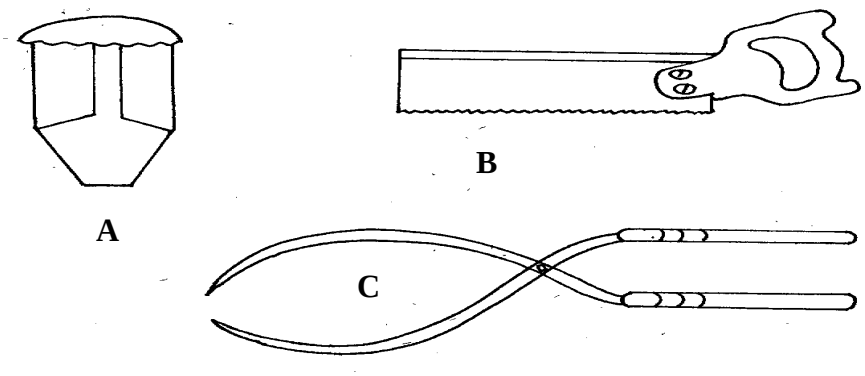
18. State **four** functions of worker bee in a colony. **(2marks)**

……
……..
……
……

SECTION B (20MARKS)

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

19. The diagram below represents farm tools.



a) Identify the tools labelled **A** and **B** **(1mark)**

……
……

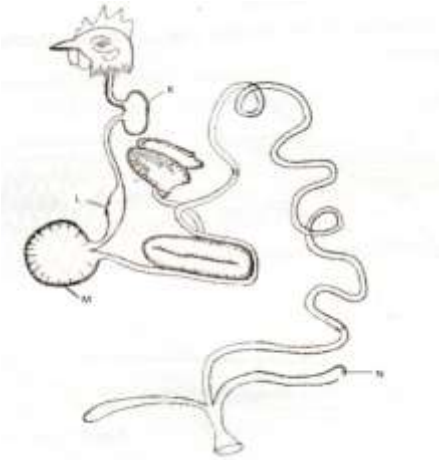
b) Give **one** use of each of the tools mentioned in (i) above **(2marks)**

……
……..

c) Give the **two** maintenance practices which should be carried out on tool **C** (2mks)

……
……..

20. The diagram below shows the digestive system of a chicken. Study it and answer question that follow.

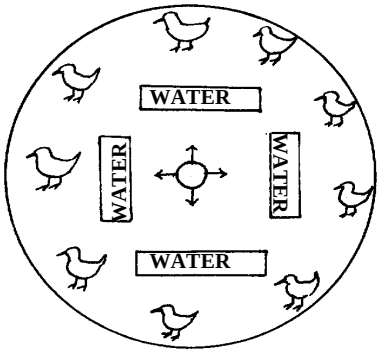


(a) . Identify the parts labeled **K.L,M** and **N** above. (2mks)

(b) . Give the function of the part labeled **M** that makes it efficient in digesting food. (2mks)

(C) . Give two characteristics of the part labeled M that make it efficient in digesting food.(1mk)

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



a) Name the structure illustrated above. **(1mark)**

……

……

b) Why should structure be round and not rectangular or square shaped. **(1mark)**

……

……..

c) Describe the heat situation in the structure. **(1mark)**

……

……..

d) Give **one** reason to support your answer in (iii) above. **(1mark)**

……

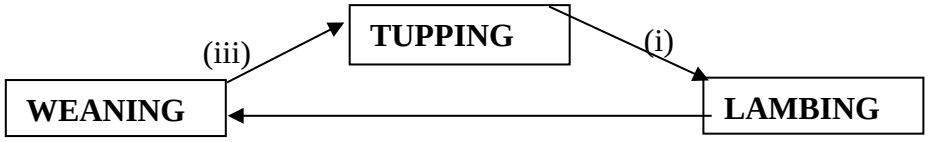
……..

e) Why is saw dust not suitable for use as litter in the structure? **(1mark)**

……

……

22. Below is a breeding cycle of a ewe in relation to the feeding regime accompanying it. Use it to answer the following questions.



(ii)

a) Name the management practice represented by (i),(ii) and (iii)
(3marks)

i)……..……..
ii)……..…….
iii)……

b) Give the importance of practice (i)
(3marks)

……
……

SECTION C (40MARKS)

Answer any two questions from this section in the spaces provided

23a)Five diseases of internal parasites attack in livestock. **(10marks)**

(b) Explain differences between *Bos indicus* and *Bos Taurus* breeds (**(10marks)**

24a) Outline **ten** management practices a farmer should carry out to maintain good healthy in a herd of cattle. **(10marks)**

b) Discuss the management of layers in a deep litter system. **(10marks)**

25. a) Describe **five** design requirement of a calf pen. **(10marks)**

b) Describe Milk Fever disease under the following sub headings.

i) Animals affected **(2marks)**

ii) Symptoms **(5marks)**

iii) Control and treatment **(3marks)**

KCSE PREDICTION 8 2022
PAPER 1

SECTION A (30 MKS).
ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

1. Give four benefits of practicing organic farming. (2mks)
2. Give four reasons why land should be prepared early in readiness for planting. (2mks)
3. List three particulars of the land owner which are included in the land title deed.(1 ½ mks
4. Name three ways of carrying out overhead irrigation in the farm.(1 ½ mks)
5. Outline four indicators of well rotten compost manure.(2mks)
6. Give four advantages of rotational grazing.(2mks)
7. List four ways through which soil PH influences crop production.(2mks)
8. Give two reasons for carrying out each of the following operations in the land.
   a) Rolling (1mk)
   b) Levelling (1mk)
9. Give four characteristics of variable inputs.(2mks)
10. State three ways by which plant nutrients may be lost from the soil.(1 ½ mks)
11. Give two activities carried out during hardening off tomato seedlings. (1mk)
12. List down four types of financial books farmers should keep.(2mks)
13. Outline four factors that affect the effectiveness of a pesticide.(2mks)
14. Give four factors that affect the quality of silage.(2mks)
15. Differentiate between soil texture and soil structure.(1mk)

16. Give three reasons why seed selection is important in the establishment of crops.(1 ½ mks)
17. State four factors that affect elasticity of demand.(2mks)

SECTION B (20MKS)

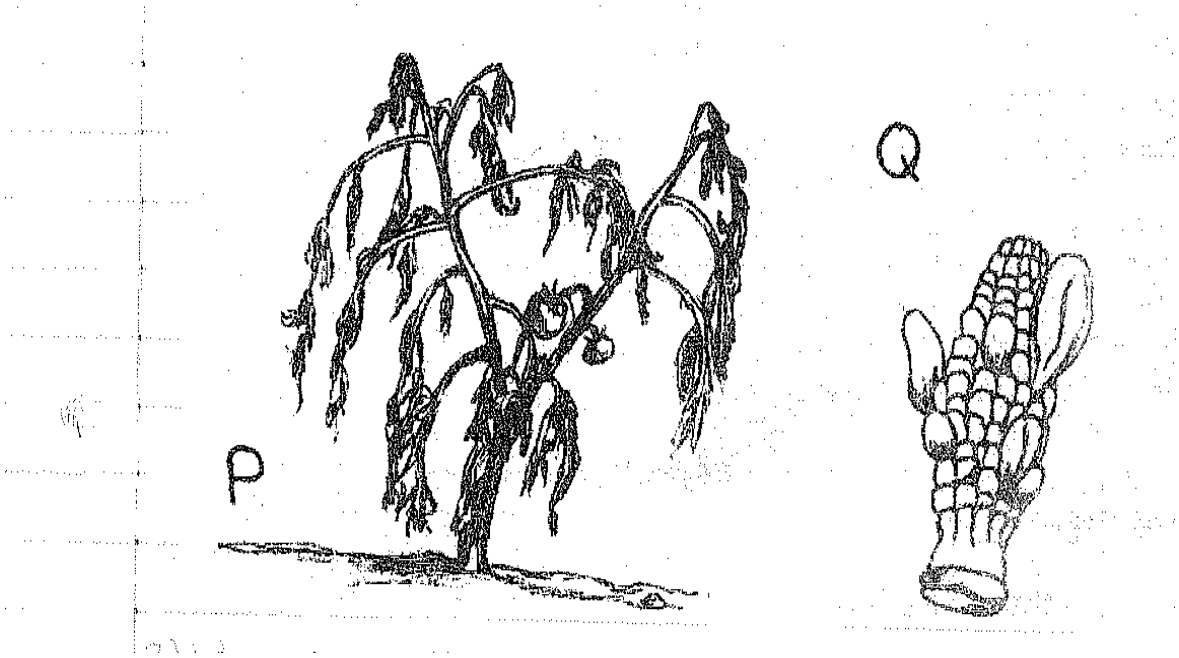
. ANSWER ALL QUESTIONS IN THE SPACES PROVIDED.

18. The transaction below shows Mr Mukindias financial position in his farm business for the year 2004.

	Ksh
Purchase of pesticides	3,000
Milk sales -	8,000
Sale of goats	5,000
Closing valuation	16,000
Interest payable	1,750
Veterinary bills	1,400
Opening valuation	12,000
Wages	10,000
Depreciation of machinery	3,000
Sale of one heifer	1,000

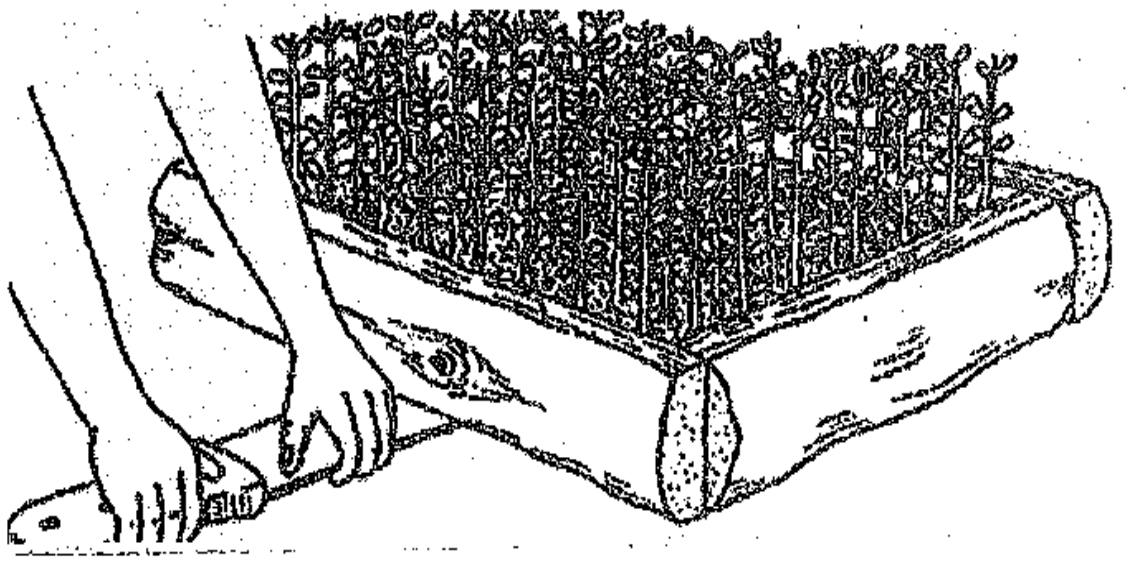
Prepare a profit and loss account for Mr Mukindia'a farm.(5mks)

19. The diagram below illustrates crop diseases, study the diagrams carefully and answer the questions that follow.



a) Identify the crop disease illustrate in the diagrams.
   P:_____(1mk)
   Q:_____(1mk)
b) Give the causative agent for each of the diseases illustrated above.
   P_____(1mk)
   Q_____ (1mk)
c) State one cultural method used in the control of disease illustrated by Q.(1mk)

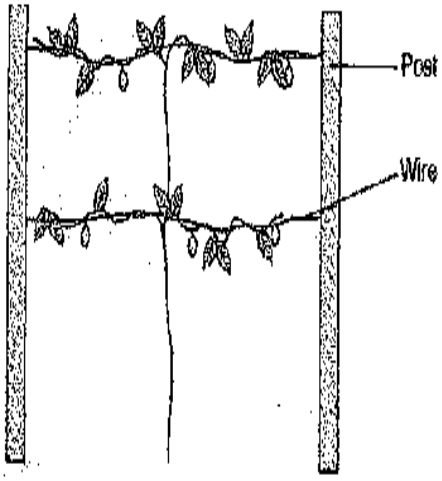
20.Below is an illustration of an activity carried out in agroforestry.



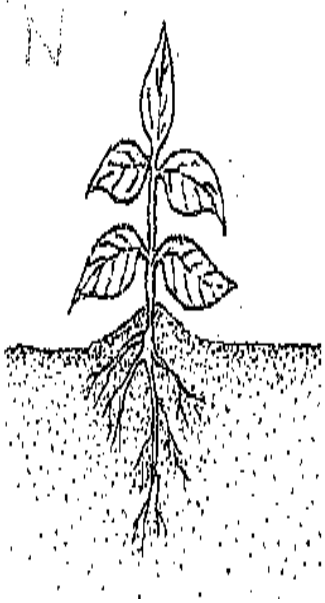
a) Identify the activity being carried out in the above diagram.(1mk
b) State two reasons for carrying out the activity identified above.(2mks)
c) Name two tools that may be used to carry out the activity in (a) above.(2mks)

21.The diagrams below illustrate field management practices. Study them carefully and answer the questions that follow.

M



N



a) Identify the field practices.
M_____ (1mk)
N_____(1mk)
b) Name a crop that can be managed using management (M) above.(1mk)
c) Give one reason for carrying out each of the management practices above.(2mks)
M_____

N_____

SECTION C (40MKS)

ANSWER ANY TWO QUESTIONS IN THE SPACES PROVIDED.

22a) State and explain any five cultural method of controlling weeds.(10mks)
b) Outline six ways in which wind negatively affects agricultural production. (6mks)
c) Explain four factors that influence the depth of planting crops. (4mks)
23a) Explain eight factors that encourage soil erosion.(8mks)
b) Describe seven management practices that should be carried out on a vegetable nursery after sowing until the seedlings are ready for transplanting. (7mks)
c) Describe the harvesting of sugarcane. (5mks)
24a) Outline the characteristics of ideal agro-forestry tree species.(6mks)
b) Describe the establishment of cabbages under the following subheadings.
i)Land preparation (3mks)
ii)Transplanting (7mks)
c) Explain the harvesting of bulb onions.(4mks)

PAPER 2

SECTION A (30 MKS)

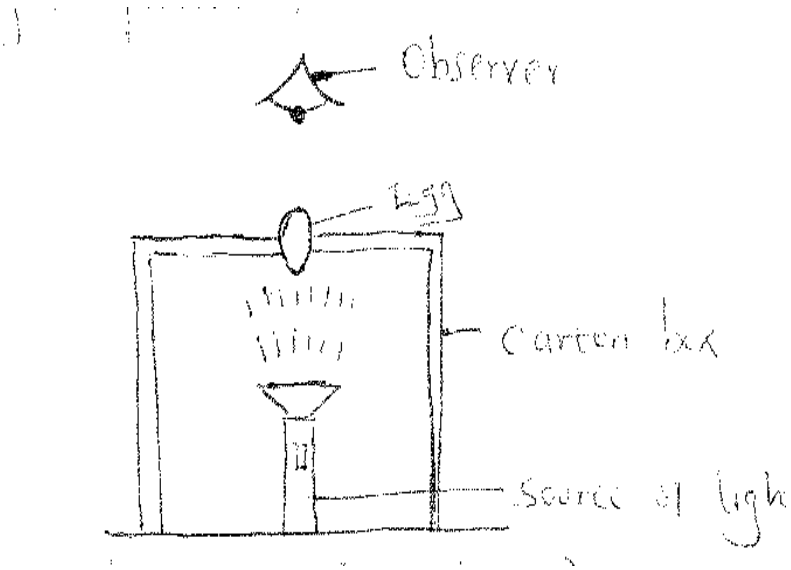
ANSWER ALL QUESTIONS IN THE SPACES PROVIDED.

1. State three harmful effects of ticks on a cow.($1^1/_2$mks)
2. Outline four ways which farmers can control mastitis in a herd of dairy animals.(2mks)
3. Name three channels through which Kenyan beef farmers can market their products.(1½ mks)
4. Differentiate between drift lambing and pen lambing in sheep management.(2mks)
5. a) Outline two factors that lower the quality of concrete.(1mk)
   b) Give two reasons for treating timber for construction of a farm building. (1mk)
6. A student from Macmillan Academy saw a brown cow with a white patch on the face, leg, parts below the knees and hocks, tail switch and flanks. Identify the breed of the cow. (1 ½ mks)
7. Give three functions of the rumen in food digestion in cattle.(1 ½ mks)
8. Name four tools that are used when laying foundation of a farm building.(2mks)
9. State four factors considered when sitting a fish pond.(2mks)
10. State the functional difference between a cold chisel and tin snip.(1mk)
11. Give four benefits a farmer gets by dehorning his cattle.(2mks)
12. State four characteristics of the African wild bee.(Apis mellifera adansonii) (2mks)
13. State four factors considered in selecting a gilt for breeding stock.(2mks)
14. Name four methods of identification in livestock.(2mks)
15. Distinguish between crutching and ringing as used in sheep management.(2mks)
16. State four factors affecting digestibility in livestock.(2mks)
17. Outline four details that should be included a pig breeding record.(2mks)

SECTION B (20MKS)

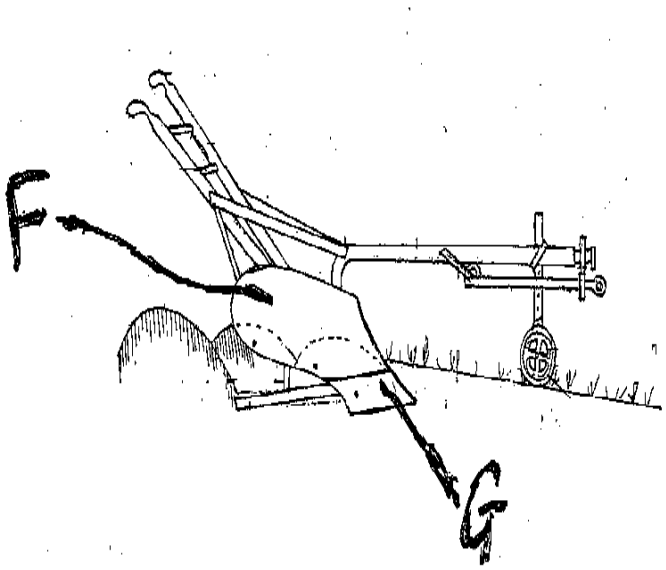
ANSWER ALL QUEESTIONS IN THE SPACES PROVIDED.

18. The diagram below shows a practice carried out in poultry production.



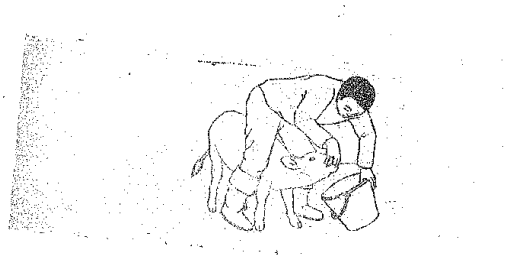
a) Identify the practice.(1mk)
b) Give two abnormalities in an egg that can be observed when using the practice.(2mks)
c) Give two observations of a fertile egg that can be observed after seven days when using the practice above.(2mks)

19. The following is an illustration of an ox-plough, use it to answer the questions that follow.



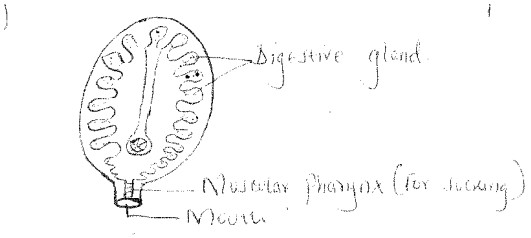
a) Name the parts labeled F and G
F _____ ½ mks
G _____ ½ mks
b) State the function of the parts labeled F and G
F _____ 1mk
G _____1mk
c)List two situations in which the above implement would be more useful than a tractor. (2mks)

20. The diagram below illustrates a calf rearing practice.



a) Identify the practice illustrated above. (1mk)
b) Give one precaution taken while using the rearing practice stated in (a) above. (1mk)
c) Enumerate three advantages of carrying out above practice. (3mks)

21. The following is a illustration of an internal parasite.



a) Identify the parasite.(1mk)
b) Name the final host of the above parasite.(1mk)
c) Describe the control measures of the above parasites. (3mks)

SECTION C (40MKS)

ANSWER ANY TWO QUESTIONS IN THIS SECTION IN THE SPACE PROVIDED.

22. a) Explain the problems that affect dairy farming in Kenya.(6mks)
b) Describe five management practices that ensure clean milk production in a dairy farm. (5mks)
c) Describe milk fever disease under the following subheadings.
i) Animals attacked. (2mks)
ii) Symptoms (4mks)
iii) Control measures (3mks)

23. a) Describe causes of egg eating in a flock of layers.(6mks)
b) Describe the maintenance practices carried out on a tractor before it is put to daily use. (6mks)
c) Explain the uses of farm fences. (6mks)
d) Explain the following observation; Tough muscles in the gizzard of poultry. (2mks)

24. a) Describe the life cycle of a one host tick.(7mks)
b) Write short notes on Friesian breed of dairy cattle under the following sub-headings.
i) Origin (1mk)
ii) Characteristics (4mks)
c) Describe the procedure of wool shearing in sheep. (8mks)

KCSE PREDICTION 9 2022
PAPER 1
SECTION A (30 marks)
***Answer all the questions in this section in the spaces provided*.**

1. State **four** characteristics of shifting cultivation (2 marks)
   ……
   ……
   ……
   ……
2. Give **four** reasons why a well drained soil is suitable for crop production (2 marks)
   ……
   ……
   ……
   ……
3. State **four** factors which determine the depth of ploughing (2 marks)
   ……
   ……
   ……
   ……
4. State **three** advantages of overhead irrigation over surface irrigation ($1\frac{1}{2}$ marks)
   ……
   ……
   ……
5. a)State the law of demand (1 mark)
   ……
   ……
   b) State **four** factors that determine the demand of a commodity in a free Market economy (2 marks)
   ……
   ……
   ……
   ……
6. state **four** ways in which plant nutrients may be lost from the soil (2 marks)
   ……
   ……
   ……
   ……
7. a)**Differentiate** between macro nutrients and micro nutrients (1 mark)
   ……
   ……
   b) State **four** functions of calcium in plant growth and development (2 marks)
   ……
   ……

……
……

8. **Explain** the following terms as used in farm account (4 marks)

   i. Cash account

   ……
   ……

   ii. Ledger

   ……
   ……

   iii. Balance sheet

   ……
   ……

   iv. Purchase order

   ……
   ……

9. State **four** factors that influence spacing when planting a pure stand maize (2 marks)

   ……
   ……
   ……
   ……

10. State **four** reasons for pruning fruit crop (2 marks)

    ……
    ……
    ……
    ……

11. State **four** ways by which a farmer can make efficient use of pasture crop (2 marks)

    ……
    ……
    ……
    ……

12. List **four** characteristics of a good root stock for grafting (2 marks)

    ……
    ……
    ……
    ……

13. Give **four** factors to consider when grading tomatoes for fresh market (2 marks)

    ……
    ……
    ……
    ……

14. Give **three** ways through which checkdams control soil erosion ($1\frac{1}{2}$ marks)

……
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……
……

15. State **two** uses of gross margin analysis in farm business (1 mark)

……
……

SECTION B

Answer all the questions in the spaces provided

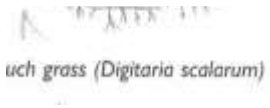
16. The diagrams illustrated below shows arable weeds. Study them carefully and answer the questions that follow



A



B





a) Identify the weeds A and B (2 marks)

A……

B……

b) Why is it difficult to control weeds A and B (2 marks)

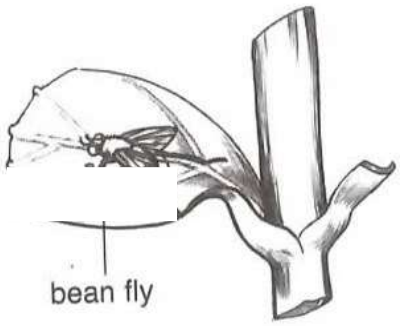
A……

B……

c) List **three** economic importance of the weeds illustrated above (3 marks)

……
……
……

17. The diagram shows a pest that attacks beans in the field. Study it carefully and answer the questions that follow.



a) Identify the pest illustrated above (1 mark)

……

b) List **three** cultural methods of controlling the pest illustrated above (3 marks)

……

……

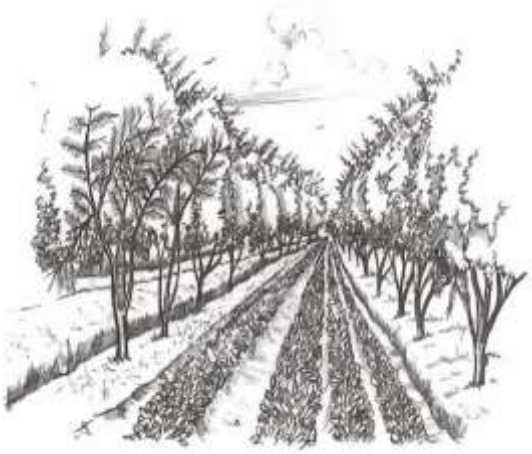
……

c) State **two** other pest that attack beans in the field (2 marks)

……

……

18. The diagram below illustrates an agroforetsry practice. Study it carefully and answer the questions that follow.



a) Identify the agroforestry practice illustrated above (1 mark)

……

b) List **three** benefits of the above agroforestry practice (3 marks)

……

……

……

c) State **three** sites for agroforestry trees (3 marks)

……

……

……

SECTION C

Answer ONLY two questions in this section in the spaces provided after the questions

19. a) Give **four** examples of joint products in livestock production (4 marks)

b) List **four** variable inputs in poultry production (4 marks)

c) A farmer can combine dairy meal and homemade feeds as shown below

Dairy meal (Kg)	Homemade 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 above information calculate the marginal rate of substitution and give values of V,W,X and V (4 marks)

ii. Given that of homemade feeds is Ksh 800 per kilogram and that of homemade feeds is Ksh 200 per kilogram. Calculate the least cost combination(4 marks)

d) Outline **four** activities that may be undertaken in organic farming (4 marks)

20. a)State and explain **five** roles of agriculture in economic development of Kenya (5 marks)

b) Describe measures which should be taken to minimize water pollution on a farm (10 marks)

c) State and **explain** the various land tenure systems practiced in Kenya (5 marks)

21. a) Outline **six** management practices that should be carried out on a vegetable nursery after sowing seeds until the seedlings are ready for transplanting (6 marks)

b) Explain **four** precautions that should be observed when harvesting cotton (4 marks)

c) Explain **five** ways in which the Kenyan government can improve maize production to ensure food security in the country (10 marks)

PAPER 2

SECTION A (30MKS)

1. State **three** management practices that should be carried out in wheel barrow. (1 ½ mks)

---

2. Outline **two** cultural importances of livestock. (1 mk)

---

3. Give **four** reasons why a dairy farmer would prefer to keep jersey cattle breed to Friesian breed? 2mks)

---

4. Give the distinguishing color for each of the following breeds of livestock.(1mk)

i) Duroc jersey pig----------

iv) Saanen----------

5. State any **two** prophylactic measures used in livestock health. (1mks)

---

6. Give the nutritional disorder that results from deficiency of the following minerals. (1 mk)

a) copper----------

b) iodine ----------

7. State **two** precaution measures that should be taken when handling vaccines. (1mk)

---

8. Which **two** hormones are responsible for milk let down? (1mk)

---

9. Give **two** disadvantages of water power as a source of farm power. (1 mk)

---

10. Give **two** advantages of complete milking. (1mk)

---

11. Using pearsons square method compute 250kg ration with 25% DCP from cotton seed cake which contains 18%DCP and from wheat bran which contains 36% DCP.(3mks)

---

12. State **two** use of a donkey in the farm.(1mk)

13Why is a calf pen raised 50cm above the ground level? (1mk)

---

14. State **two** reasons of tailing in sheep. (1mk)

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15. Give **two** uses of a gearbox in a tractor. (1mk)

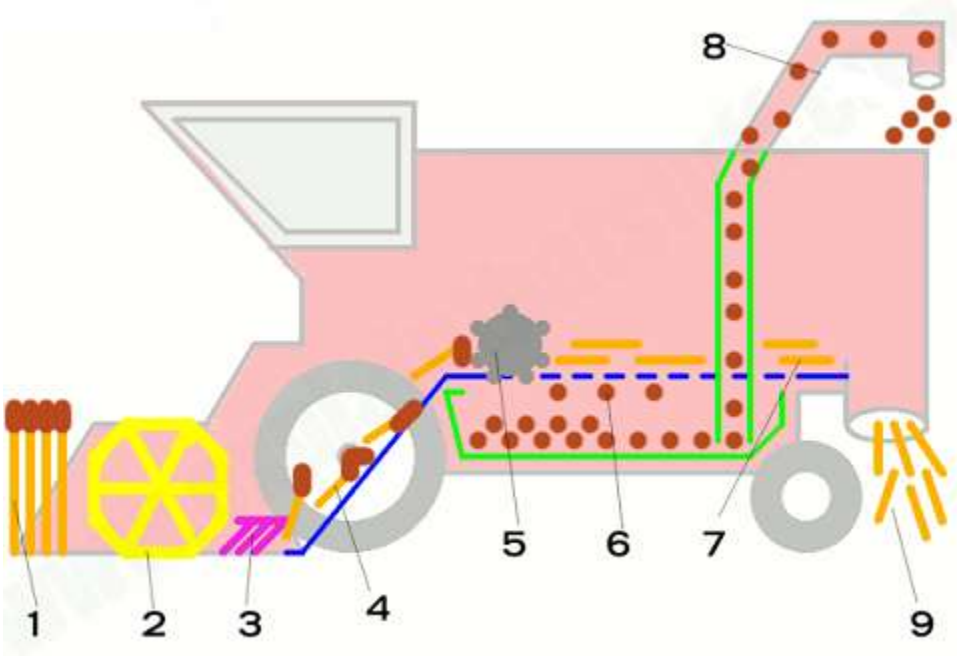
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16. Name the rabbit breed that give high quality fur. (1/2 mk)

17. Give **one** reason as to why animals suffering from milk fever should never be given medicine through the mouth. (2mks)

SECTION B (20MKS)

18. Below is diagram of a farm implement. Study it answer questions that follow.



a) Identify the implement.(1mk)

---

b) Name parts labeled . (2 mks)

1----------

2----------

5----------

8----------

c) Give a function of each of the parts you have named above. (2mks)

1---------- ----------

2---------- ----------

3---------- ----------

8---------- ----------
---
d) Give the main function of the machinery illustrated above. (1mk)
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19. The diagram below represents an external parasite.



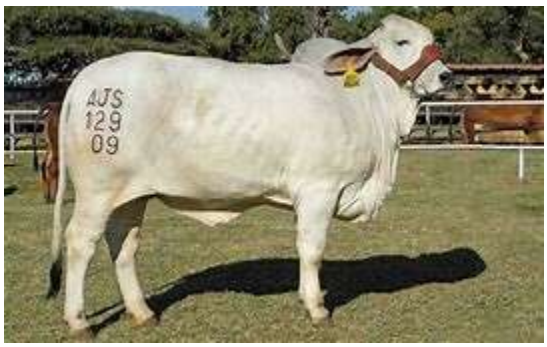
a))Identify the parasite. (1mk)
---------- ----------
b) Discuss the parasite under the following subheadings
i) Main animal affected. (1mk)
---------- ----------
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ii) Harmful effects (2mks)
---------- ----------

---------- ----------
iii) Control measures (2mks)
---------- ----------

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20. The diagram below represents a livestock management practice.





a) Name the livestock identification method illustrated above. (2mks)
X----------
Y—----------
b) Give an example of an animal where each of the practice is done. (2mks)
X----------

Y----------c) Name the tool used to carry out practice labeled (1mk)

X----------

Y----------

SECTION C (40MKS)

Select any **two** questions.

21.a) Explain **five** reasons for maintaining tools and equipments. (5mks)

b) Describe the physical signs of good health in an animal. (4mks)

c) State **six** functions of water in an animal's diet. (6mks)

d) Give the procedure of preparing artificial colostrums. (5mks)

22.a) Discuss **six** factors that should be considered when selecting construction materials. (6mks)

b) Explain the life cycle of two host tick.(6 mks)

c) Explain **four** conditions that should be met by all livestock housing structures.(4mks)

d) Explain **three** differences between ruminants and non ruminants.(3mks)

23.a) state **six** control measures of egg eating in poultry management.(6mks)

b) Discuss the functions of materials and equipments that are needed in milking. (7mks)

c)compare characteristics of indigenous cattle to those of exotic breeds of cattle. (7mks)

KCSE PREDICTION 10 2022

PAPER I

SECTION A (30 MARKS)

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

1. State two benefits of optimum soil temperature in crop production (1mk)

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……

2. State four reasons for deep ploughing during land preparation (2mks)

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……
……

3. What is increasing return in crop production (2mks).

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4. Name one physiological disease in tomatoes (½ mark)

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……

5. Name FOUR farm records that should be kept by a poultry farmer (2mks).

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6. List three forms in which soil water exists (1½mks)

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……..……
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7. State four sources of capital to a wheat farmer in Kenya (2mks)

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……..……
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……..……
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8. Sate two ways of increasing light intensity in crops (1mk)

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……
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9. State three methods of preparing planting materials (1 ½ mks)

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……..……
……..……
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……..

10. Name three methods of harvesting trees. (1½ mks)

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11. Calculate the amount of K_20 contained in 400Kg of compound fertilizer 25:10:5 (2mks)

12. Give four importance of top dressing pastures (2mks).

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13. Give THREE reasons for treating water on the farm. (1 ½ mks).

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……

14. List three tertiary operations carried out in the farm (1 ½ mks)

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……

15. Give THREE classifications of farm credit according to the repayment periods. (1½ mks).

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……

16. Give TWO factors that determine the quality of hay. (1mk)

17. Give two reasons for training in crop production (1mk)

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……

18. State two cultural measures taken by farmers to control weeds in the farm (1 mk).

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19. Give one signs shown by crop when they are attacked by nematodes (½ mks)

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……

20. Outline two circumstances when opportunity cost is ZERO (1 mk).

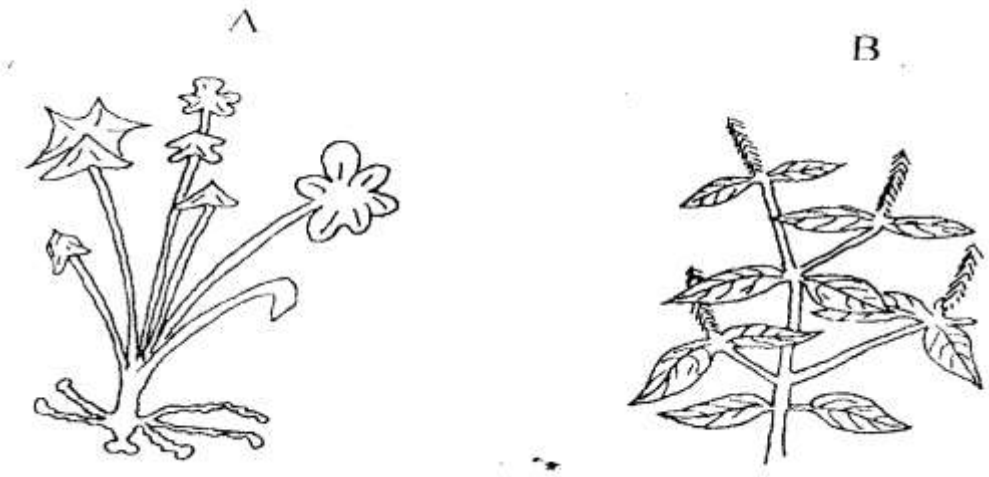
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……

21. Outline three items that a maize farmer can enter into his consumable inventory records. (1 ½ mks)

SECTION B (20 MARKS).

Answer all questions in this section in the spaces provided.

22. Study the diagrams below and answer the questions that follows



a) Identify the weeds A & B (2mks)

b) State one reason why the weed labeled A is difficult to control. (1mk)

……

……

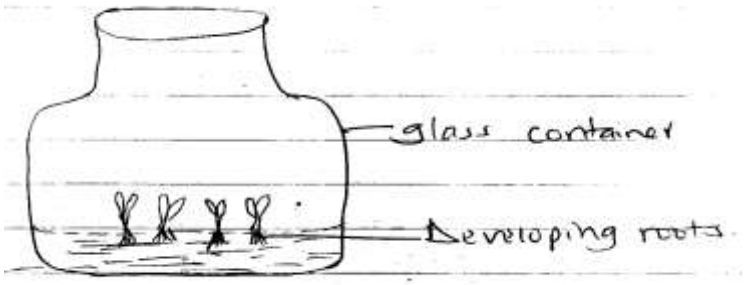
c) State TWO economic importance of the weed labeled B in Agriculture. (2mks)

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……

23. The diagram below illustrates materials and a method of vegetative propagation. Study it and answer the questions that follow.



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

……

……

b) Give TWO Advantages associated with the method named (a) above, (2mks)

……

……

……

……

c) State TWO characteristics of certified seeds. (2mks)

……

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……

24. Shown below is a layout of a compost heap. Study it carefully and then answer the questions that follow.

4
3
2
1
MAIZE STALKS

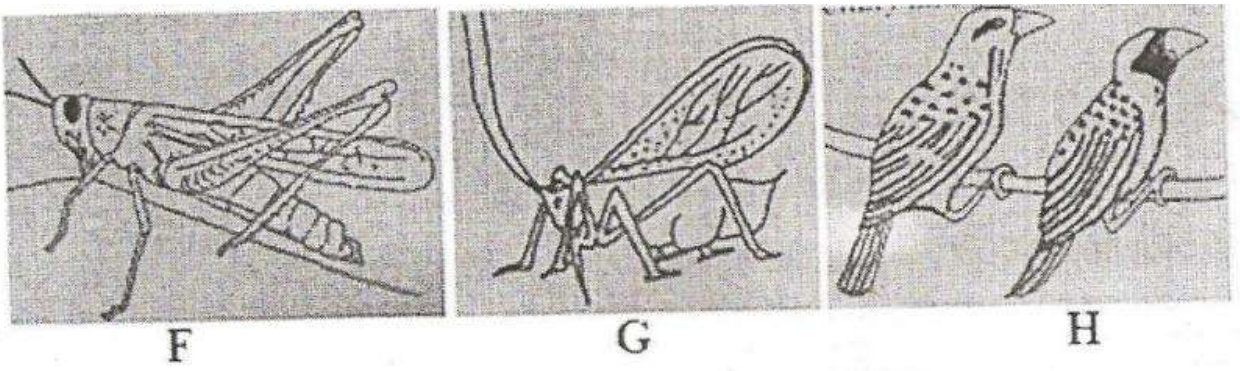
Ground Level

a) Name the materials in each of the parts labeled 1, 2, 3 and 4 (2 marks)
1…….3……
2…….4……

b) State one role of each of the material in the parts labeled 1 and 3. (2 marks)
1……
2……

c) (i) Give one reason for adding water to a compost heap. (1mark)
……
……
(ii) Give one reason for regularly turning the materials in a compost heap
…….. (1 mark)

25. Illustrated below are crop pests. Study the illustrated above.



a) Identify each of the pests labeled G, G, and H. (3mks)

b) State one damage caused by pest G to the crops infested (1 mark)

……

SECTION C (40 MARKS).

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

26. i. Outline FIVE (5) advantages of land consolidation (5mks).
ii. Explain eight factors that can encourage soil erosion (8mks)
iii. Outline 7 importance of drainage as a land reclamation practice (7mks)

27. a. Describe field production of dry beans under the following sub headings:
(i) Land preparation: (4mks)
(ii) Planting (6mks)
b. Explain 5 factors affecting rooting of cuttings in vegetative propagation (10mks)

28. (a) The tables below gives information on supply and demand schedules for tomatoes in a local market

Table 1 prices and quantities of tomatoes supplied

Tomatoes (kg)	price per kg (Ksh.)
150	16.00
130	14.20
125	13.80
112	13.00
106	12.70
85	11.80
50	10.60
42	10.40
30	10.20
25	10.10

Table 2: prices and quantities of tomatoes demanded

Tomatoes (kg)	Prices per Kg (Ksh)
80	18.00
87	16.70
101	15.50
119	14.10
135	13.20
155	12.40
171	11.80
185	11.30
191	11.10
205	10.80

(i) Using the above data, plot supply and demand curves on the same axes. (8marks)

(ii) Determine the price at which 120kg of tomatoes were supplied on the market. (1mark)

(iii) How many kilograms of tomatoes were bought at a market price of Ksh. 13.00 (1mark)

(iv) What was the equilibrium price for tomatoes on the market (1mark)

(b) Explain five advantages of mulching in crop production (5marks)

(c) Outline activities that may be undertaken in organic farming (4marks)

PAPER 2

SECTION A (30 MARKS)

1. Give two reasons why jersey breed of cattle are better suited to arid areas than Friesian cattle (2mks)

---

2. Give two methods of handling rabbits (1mk)

……

……

3. Describe four factors to consider when selecting a breeding boar (2mks)

……

……

……

……...

4. Name the other tool used together with the following (1mk)

Canular……

elastrator…….

5. State four characteristics of roughages in livestock nutrition (2mks)

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……
……
……

6. Name four livestock structures used to control livestock parasites on the farm (2mks)

……
……
……
……

7. Name a breed of a pig which has the following characteristics (1mk)
   I. Black body with a white patch on the shoulders
   ……
   II. Erect ears and a broad dished snout
   ……

8. Give two ways in which proper nutrition helps control livestock diseases (1mk)

……
……

9. List two methods that dairy farmers can use for outbreeding (1mk)

……
……

10. Give four maintenance practices which are carried out on a wheelbarrow (2mks)

.....
.....
.....
.....

11. State two characteristics that will be observed on chicks when the brooder temperatures are high (2mks)

……
……
……
……

12. List two causes of bloat in ruminant animals (1mk)

……
……

13. List two sources of animal power in the farm (1mk)

……
……

14. Give two reasons for washing the cow's udder with warm water before milking (2mks)

……
……

15. a) Differentiate between cropping and harvesting in fish farming (1mk)

……
……
……

b) Give four reasons why bees swarm (2mks)

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……
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……

16. State four reasons why it is necessary to take weights of animals in the farm (2mks)

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……
……

17. Name four systems of a tractor engine (2mks)

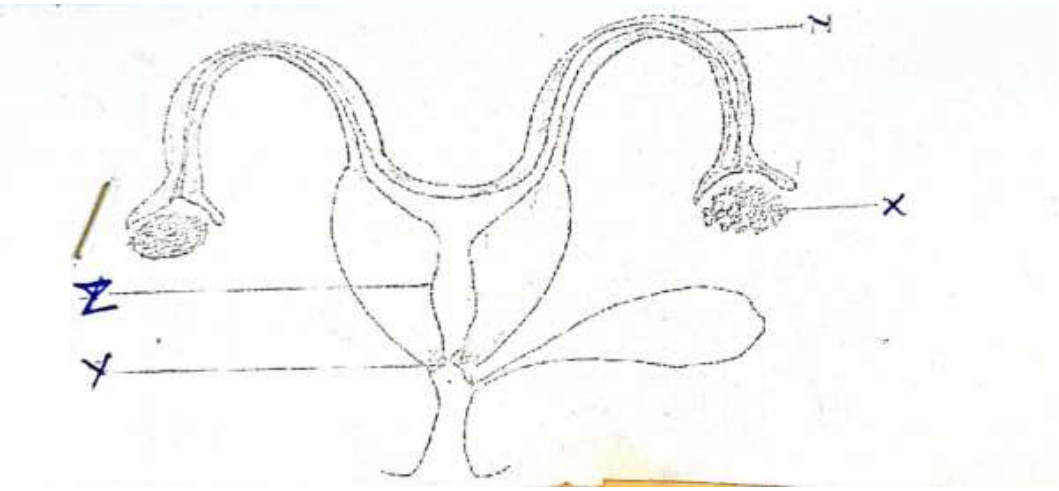
……
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……

18. Give four characteristics of a good site for a fishpond (2mks)

……
……
……
……

SECTION B (20 MARKS)

19. The diagram below shows a reproductive system of a cow, study it carefully and answer the questions that follow.



a) Name the parts labelled X and Y (2mks)
X
Y

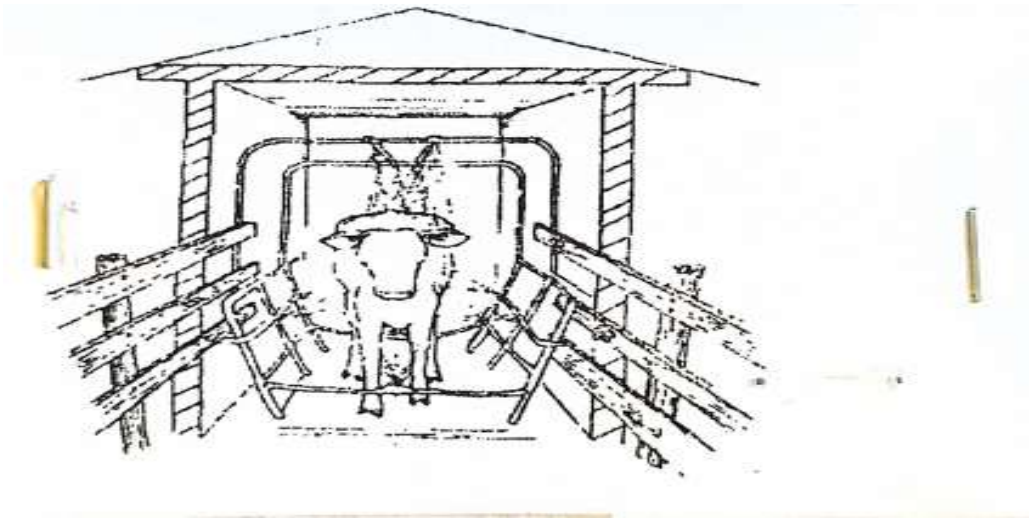
b) Give two functions of the part labelled Z (2mks)

……
……

c) Name any disease that can be transmitted to the above reproductive system through natural mating (1mk)

……
……

20. The diagram below shows a farm structure, use it to answer the questions that follow.



a) Identify the practice being carried out (1mk)

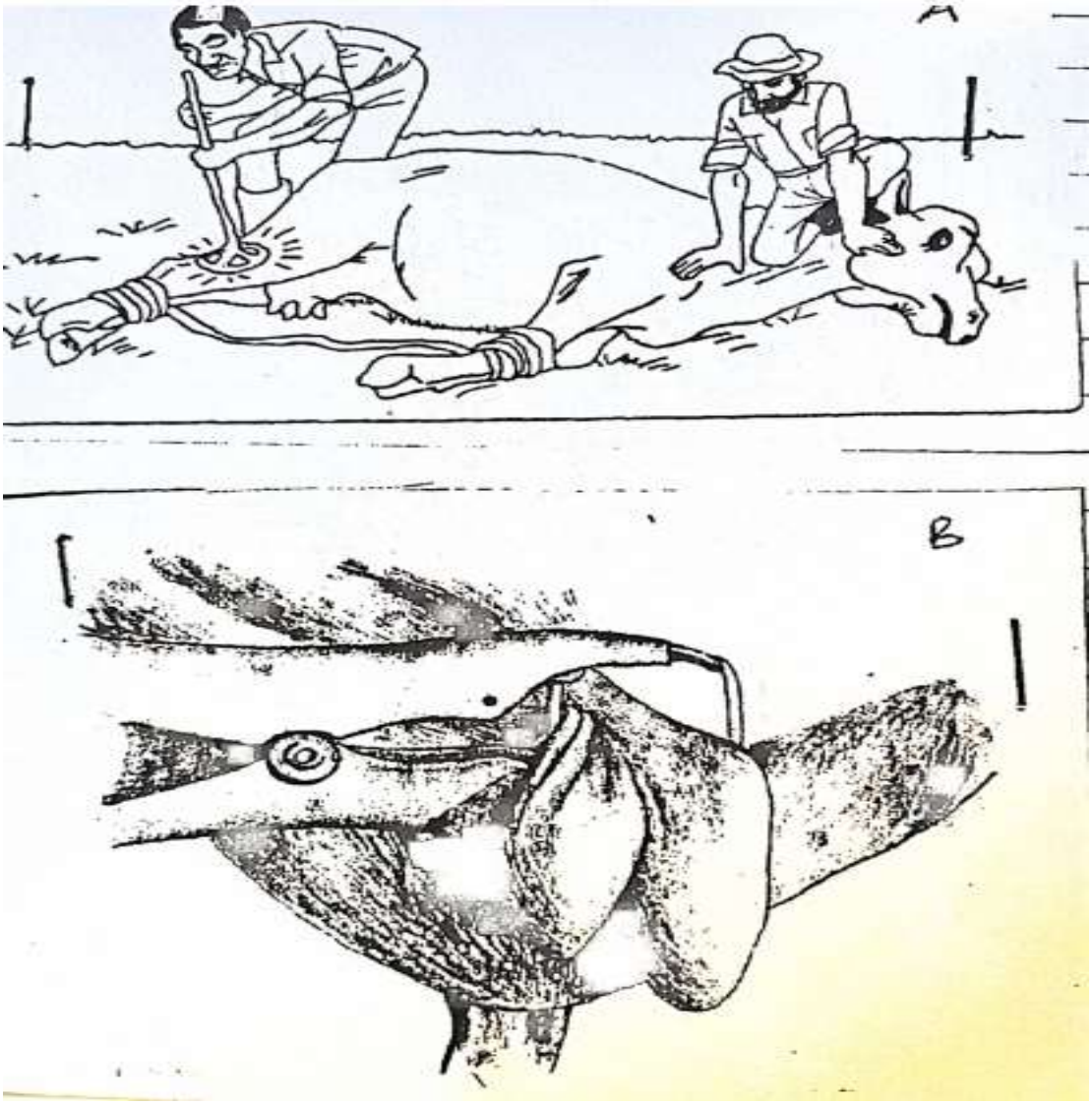
.....

b) Name the structure in which the practice is being carried out (1mk)

……

c) Give three advantages of the above structure (3mks)

21. Study the diagrams below carefully and answer the questions that follow.



a) Identify the livestock management practice taking place in diagram A and B (2mks)

A…….
B…….

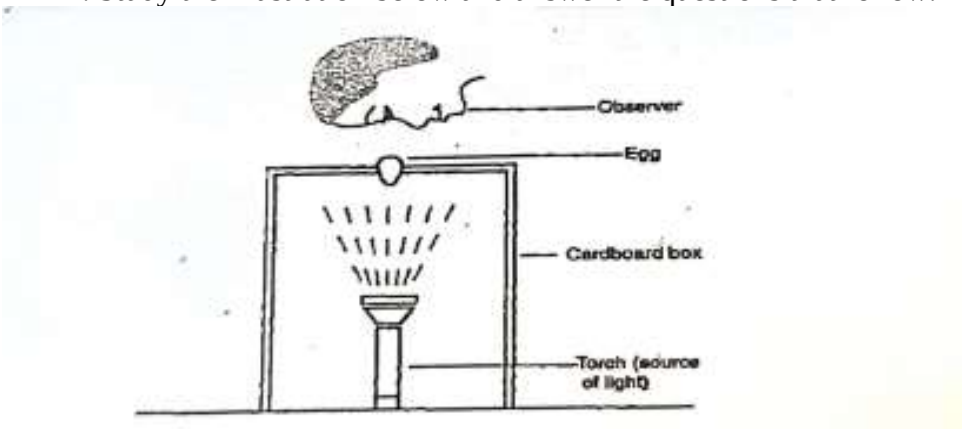
b) State two problems associated with practice A in the diagram above (2mks)

……
……

c) What is the importance of carrying out the management practice illustrated by diagram B? (1mk)

.....

22. Study the illustration below and answer the questions that follow.



a) Identify the practice (1mk)

……

b) Why is the practice recommended on the 18^{th} day of incubation? (1mk)

……

c) State three defects of an egg that can be detected using this set up (3mks)

SECTION C (40 MARKS)

Answer Any Two Questions from This Section

23. a) Describe the procedure of erecting wooden post for fencing (10 mks)
b) Describe the process of egg formation in the reproductive system of a hen (6 mks)
c) State four predisposing factors of mastitis in cattle (4 mks)

24. a) Describe seven advantages of artificial insemination (7 mks)
b) State five factors to be considered when formulating a livestock ration (5 mks)
c) Describe the effect of parasite on livestock (8 mks)

25. a) What preparation would a farmer carryout in preparation for arrival a day old chicks (8 mks)
b) Discuss pneumonia in calves under the following sub-heading (8 mks)
i. Symptoms
ii. Control
c) State four causes of long calving intervals (4 mks)