



AGRICULTURE PAPER 2

**KABARAK HIGH
ALLIANCE BOYS
ALLIANCE GIRLS
ASUMBI GIRLS
KISII SCHOOL
KENYA HIGH
MANGU SCHOOL
MARANDA SCHOOL
MASENO SCHOOL
MERU SCHOOL
MOKASA JOINT 1
STAREHE GIRLS
STAREHE BOYS
LENANA SCHOOL
MOI GIRLS ELDORET
NAIROBI SCHOOL
FRIENDS SCHOOL KAMUSINGA**

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*These exams have been compiled from recently done
national schools' trials and joint series*

KNEC COMPLIANT

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Kenya Certificate of Secondary Education
KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name Admission number
Candidate's Signature.....Date.....

443/2
AGRICULTURE
PAPER 2
TIME: 2 Hours
March / April

MOI HIGH SCHOOL KABARAK 2025

The Kenya CERTIFICATE OF Secondary Education (K.C.S.E)

Instructions to Candidate

1. Write your **name** and **index number** in the space provided above.
2. Sign and write date of examination in spaces provided.
3. This paper consists of three sections **A**, **B** and **C**.
4. Answer all questions in section **A** and **B** and any other **two** questions in section **C**.
5. **All** answers should be written in spaces provided.
6. Candidates **MUST** answer the questions in English.

FOR EXAMINER'S ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 18	30	
B	19 – 22	20	
C	23 – 25	20	
		20	
	TOTAL	90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. State **four** factors that determine the amount of water required by a livestock. (2mks)

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2. Name a breed of goat kept for hair production. (1/2mk)

.....

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3. State **three** factors that would determine the effectiveness of an acaricide. (1 1/2mk)

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.....

4. Give **two** reasons for flushing in sheep management. (1mk)

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5. State **four** reasons for castrating a breeding boar. (2mks)

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6. State **two** functions of the crop in poultry digestive system. (1mk)

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7. Name **four** parts of a farm building that can be reinforced using concrete. (2mks)

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.....

8. State **two** advantages of housing calves singly in cattle management. (1mk)

.....

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9. Give **four** signs which indicate that a sow is about to farrow. (2mks)

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10. State **four** causes of stress on poultry. (2mks)

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11. State **two** conditions that may inhibit milk let-down in dairy cattle management. (1mk)

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12. Give **four** ways of stimulating milk let-down in a dairy cow. (2mks)

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13. What is dry cow therapy? (1mk)

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.....

14. List **four** categories of livestock diseases. (2mks)

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15. State **four** disadvantages of using plunge dips in tick control. (2mks)

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16. Give **four** reasons for controlling livestock diseases.

(2mks)

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17. State **four** characteristics of the Duroc Jersey Pig breed.

(2mks)

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18. (a) Give **three** reasons for candling eggs in poultry production.

(1½mk)

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.....

.....

(b) State **three** disadvantages of free range system in poultry rearing.

(1½mk)

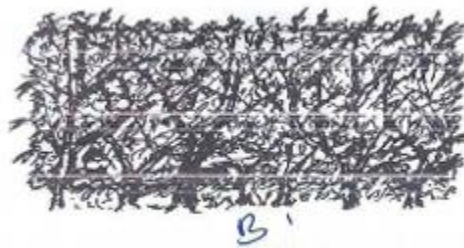
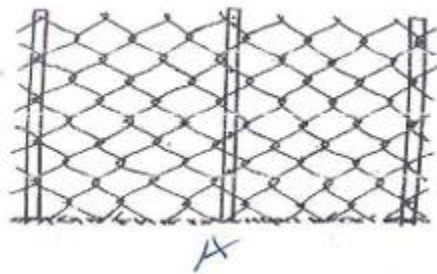
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SECTION B (20 MARKS)

Answer all questions in this section in the spaces provided.

19. Use the farm structures below to answer the questions that follow.



(a) Name the type of wire fence illustrated in **A** above.

(1mk)

.....

.....

(b) Name a correct material and tool for fastening the wire into the wooden posts when constructing the type of fence in **A**.

(1mk)

.....

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.....
(c) State **three** advantages that fence **B** may have over fence **A** (3mks)
.....
.....

20. The diagram below shows an attachment of a workshop tool.

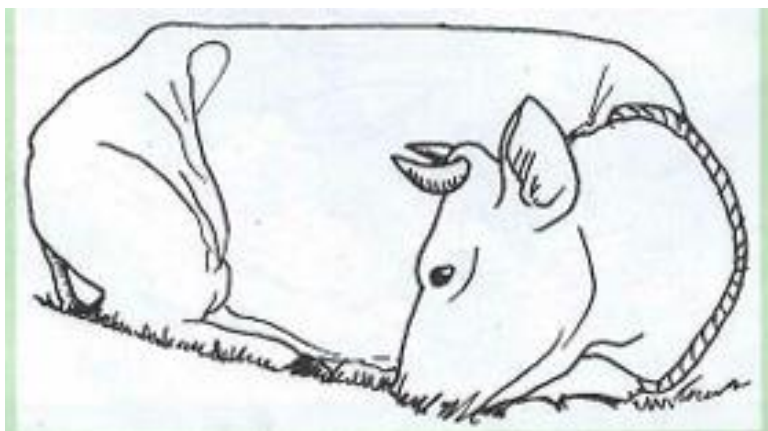


(a) Identify the attachment. (1mk)
.....
.....

(b) What workshop tool is attached to when being used. (1mk)
.....
.....

(c) State **three** safety measures which should be taken when using workshop tools in order to prevent injury. (3mks)
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.....

21. The illustration below shows a dairy cow suffering from a diseases. Three days after calving the cow went down with its head, turned back and was unable to stand.



(a) Which diseases was the cow most likely to be suffering from. (1mk)

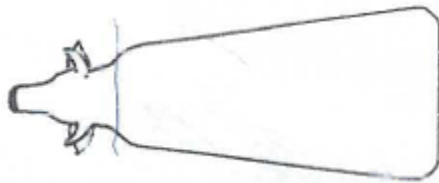
.....
.....
(b) Give the cause of the disease

(1mk)

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.....
(c) State **three** ways of preventing the disease you have identified in (a) above.

(3mks)

.....
.....
22. Below is an illustration showing a birds view of a cow.



(a) With a reason identify, the type of cattle shown above.

(2mks)

.....
.....
(b) State **three** other ideal features of the above animal not seen from the illustration. (3mks)

.....
SECTION C (40 MARKS)

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

23. (a) Describe foot-rot disease under the following sub-headings.

(i) Causal organism

(1mk)

.....
.....
(ii) Signs of infection

(5mks)

(iii)Control measures (4mks)

.....
.....

(b) Name any **three** parts of a pigpens and give their functions in a piggery (6mks)

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

(c) Outline **four** reasons for dehorning in cattle production. (4mks)

.....
.....

24. (a) Describe **seven** control measures of cannibalism in a flock of layers. (7mks)

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

(b) Give **five** reasons for keeping dairy cows health. (5mks)

.....
.....

(c) Describe the symptoms of round worm infestation in livestock (8mks)

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.....

25. (a) Describe the management of a dairy calf using artificial rearing method from birth to weaning. (7mks)

.....
.....

(c) Describe upgrading as a method of improving indigenous cattle for milk production. (8mks)

(c) Give **four** characteristics of a good site for a fish pond. (4mks)

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

(d) State **three** reasons for supplementing the bees with sugar syrup. (3mks)

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Name Admission number
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ALLIANCE BOYS HIGH SCHOOL TRIAL EXAMS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name, index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and **B** in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 13	30	
B	14 – 17	20	
C	18	20	
	19	20	
	20	20	
	Total Score	90	

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SECTION A (30 Marks)

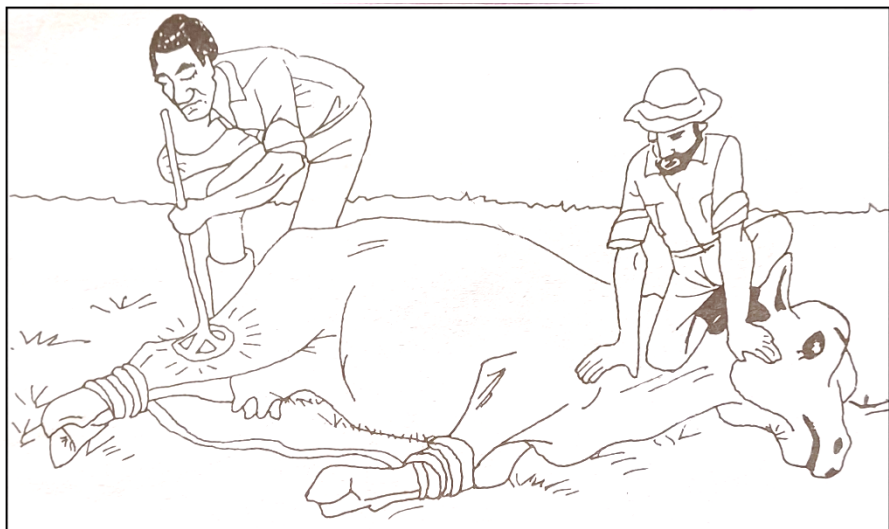
Answer ALL questions in this section

1. State four signs of broodiness in hens (2 mark)
2. State two chemicals used in treatment of timbers. (1 mark)
3. Name four factors that determine the amount of food given to an animal. (2 mark)
4. Define the following terms as used in livestock production.
 - a) Gilt (½ mark)
 - b) Cockrell (½ mark)
5. State four causes of stress in poultry. (2 mark)
6. State four categories of farm tools. (2 mark)
7. Name four advantages of animals as a source of power on the farm. (2 mark)
8. State four heavy breeds of birds. (2 mark)
9. State two factors that enable ruminants to break down food materials. (1 mark)
10. Name four protozoan livestock diseases. (2 mark)
11. State four maintenance practices carried out on the pond after draining. (2 mark)
12. Name two categories of tick control measures. (1 mark)
13. Give two reasons why calves should be housed singly. (1 mark)
14. State four predisposing factors of a livestock diseases. (2 mark)
15. State four precautionary measures taken when using workshop tools. (2 mark)
16. Give four reasons for in breeding in cattle. (2 mark)
17. Give reasons for handling livestock. (2 mark)
18. Give the meaning of the following terms as used in livestock health.
 - a) Mortality (½ mark)
 - b) Incubation period (½ mark)

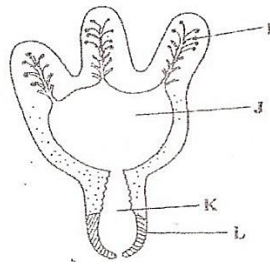
SECTION B (20 MARKS)

Answer all questions in this section

19. A farmer wanted to prepare 200kg of calf ration containing 20% DCP. Using the Pearson square method, calculate the amount of maize containing 10% DCP and sunflower cake containing 35% DCP the farmer would need to prepare the ration. (Show your working) (5 mark)
20. The diagram below illustrates a method of identification in livestock production. Study the diagram and answer the questions that follow.



- a) Name the type of identification illustrated above. (1 mark)
 - b) Name the two areas where the practice illustrated above can be carried out on the animal. (2 mark)
 - c) Give two disadvantages of the practice above. (2 mark)
21. The diagram below shows a cross-section of a cow's udder.



a) Label the parts I, J, K and L

(2 marks)

i) What is milk let down

(1 mark)

ii) Name two hormones responsible for milk let down.

(1 mark)

22. The diagram below illustrates a livestock parasite. Study it and answer the questions that follow.



a) Identify the parasite illustrated above.

(1 mark)

b) State the major harmful effect of the parasite.

(1 mark)

c) State three control measures of the parasite.

(3 mark)

SECTION C (40 MARKS)

Answer only two questions in this section.

23. a) Describe foot and mouth diseases under the following sub-headings.

i) Animals affected.

(1 mark)

ii) Causal organism

(1 mark)

iii) Symptoms

(1 mark)

iv) Control measures.

(1 mark)

b) State **five** effects of parasites on livestock.

(5 mark)

c) Give **five** disadvantages of free-range system of rearing poultry.

(5 mark)

24. a) State and explain any **five** parts of a spray race.

(10 mark)

b) Give **five** signs of heat in pigs.

(5 mark)

c) State **five** characteristics of clean and high – quality milk.

(5 mark)

25. a) State and explain **five** components of the mould board plough.

(10 mark)

b) Describe **five** requirements of a deep litter system.

(10 mark)

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Name Admission number

Candidate's Signature.....Date.....

ALLIANCE GIRLS HIGH SCHOOL

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name**, **index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and B in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 13	30	
B	14 – 17	20	
C	18	20	
	19	20	
	20	20	
	Total Score	90	

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Answer all questions in the spaces provided

1. Distinguish between Apiculture and aquaculture as used in animal production. (2mks)

2. Name animal disease that it is transmitted by the following parasite
i. Brown ear tick (½mk)

- ii. Tse tse fly (½mk)

3. State the secondary and intermediate host for liver fluke (*Fasciola hepatica*) (1mk)

4. State four breeds of goats. (2mks)

5. Outline the function of the Crop in the digestive system of hen. (1mk)

6. Give reasons why animal are restrained. (2mks)

7. Outline four viral disease in livestock. (2mks)

8. Stae three method of selection in livestock. (2mks)

9. Explain how to prevent cannibalism among poultry. (3mks)
10. Give the importance of additives in livestock feeds. (2mks)
11. Outline three types of calf pen. (2mks)
12. State four advantages of movable calf pen. (2mks)
- 13.
- i. Explain mating in livestock. (3mks)
- ii. Outline three methods of mating in livestock. (3mks)
14. Explain the reason why scrotal sac should distend and contract in various temperature state. (2mks)
15. Define the following terms
- i. Mothering ability. (1mk)

ii. Prolificacy in livestock. (1mk)

16. Explain what is pre-disposing factor. (1mk)

17. Name four pre-disposing factors that pre-disposes livestock to diseases. (2mks)

18. Give functional differences between rumen and abomasum. (2mks)

19. Which equipment is used to administer:

i. Solid taplet during deworming. (1mk)

ii. Liquid drug during deworming. (1mk)

SECTION B(30MKS)

20.

i. Briefly explain how three-host tick completes its life cycle. (4mks)

ii. Why is controlling tick using acaridae not efficient in hand in hand spraying method. (2mks)

21. Name the common parts of animal that ticks are likely to be found. (2mks)

22. State the diseases that ticks causes in livestock. (2mks)

23.
i. State the process of ascertaining whether egg are viable for incubation. (1mk)

ii. Briefly explain the procedure of the named process above. (4mks)

24.
i. Give a reason why should calf pen have slatted floor. (2mks)

ii. Outline the features of calf pen. (4mks)

25. Explain the reason why calf houses should be singly. (2mks)

- 26.
- i. Explain what is milk secretion process. (1mk)
 - ii. Identify the structure of the mammary gland of a cattle. (4mks)

SECTION C (Answer any two questions)

- 27.
- i. Explain the process of milk-let down process in livestock. (10mks)
 - ii. Outline factors that influence milk let down in animals. (5mks)
 - iii. Outline factors that determine the cleanliness of milk. (5mks)
- 28.
- i. Outline the signs of heat in cattle. (5mks)
 - ii. State five causes of stress in poultry. (10mks)
 - iii. Using Pearsons square compute a ration with 20% DCP.
Show your working. (5mks)
- 29.
- i. Explain farming practices that contributes to minimum tillage. (5mks)
 - ii. Give the limitation of using artificial insemination in cattle. (5mks)
 - iii. State and explain factors to be considered in selection of animals for breeding purposes. (10mks)

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Name Admission number

Candidate's Signature.....Date.....

KENYA HIGH TRIAL 1

413/1

AGRICULTURE

PAPER 1

TIME: 2 hours

INSTRUCTION TO CANDIDATES

- a. Write your name and index number in the spaces provided above.*
- b. Sign and write the date of Examination in the space provided.*
- c. This paper consists of three sections A, B and C.*
- d. Answer ALL the questions in section A and B.*
- e. Answer TWO questions in section C in the spaces provided.*

FOR EXAMINER'S USE ONLY.

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 15	30	
B	16 – 19	20	
C	20– 22	20 20	
TOTAL SCORE		90	

SECTION A (30MKS)

Answer all questions in this section on spaces provided.

1. State four non-chemical method used to control ticks (2marks)
i).....
ii).....
iii).....
iv).....
2. Highlight two management practices carried out on a broody hen (2marks)
i).....
ii).....
3. State four characteristics of a good fish pond (2marks)
i).....
ii).....
iii).....
iv).....
4. Give four signs to show that a cow is on heat. (2marks)
i).....
ii).....
iii).....
iv).....
5. State four features of calf pen that help to control calf diseases (2marks)
i).....
ii).....
iii).....
iv).....
6. a) What is dry cow therapy (1mark)
.....
.....
b) At what stage of gestation is dry cow therapy practiced (1mark)
.....
7. Name four farm structures used for handling livestock (2marks)
i).....
ii).....
iii).....

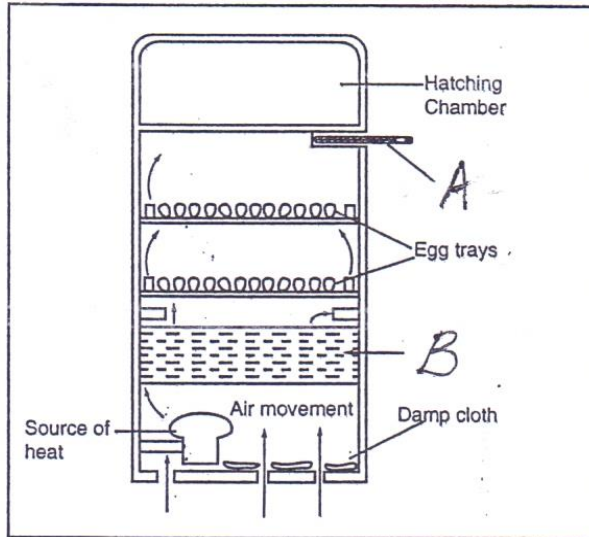
- iv).....
8. Give four symptoms of respiratory disorders in a sick cow (2marks)
- i).....
- ii).....
- iii).....
- iv).....
9. Mention two characteristics of abdomen of a poor layers (2marks)
- i).....
- ii).....
10. Distinguish between mothering ability and prolificacy (2marks)
-
-
-
11. List two factors that can lead to conception failure after female cow has been served (2marks)
- i).....
- ii).....
12. State four factors that may lead to a farmer culling dairy cattle (2marks)
- i).....
- ii).....
- iii).....
- iv).....
13. List four ways in which vaccines are administered to an animal. (2marks)
- i).....
- ii).....
- iii).....
- iv).....
14. Name four tools that are used when laying concrete blocks during construction of a wall (2marks)
- i).....
- ii).....
- iii).....
- iv).....
15. State four features on the animal which may pre-dispose it to livestock diseases (2marks)
- i).....
- ii).....

- iii).....
- iv).....

SECTION B (20 MARKS)

Answer ALL questions in this section in the spaces provided

16. The following is a diagram of an artificial incubator. Study it and answer questions that follow.



- (a) Identify the following parts shown by letters A and B. (2marks)

A

B

- (b) State three conditions that are necessary for a successful hatching. (3marks)

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.....

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- 17 . Study the illustration below showing an animal suffering from a disease and answer the question bellow



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

.....

(b. What causes the disease shown above? (1mk)

.....

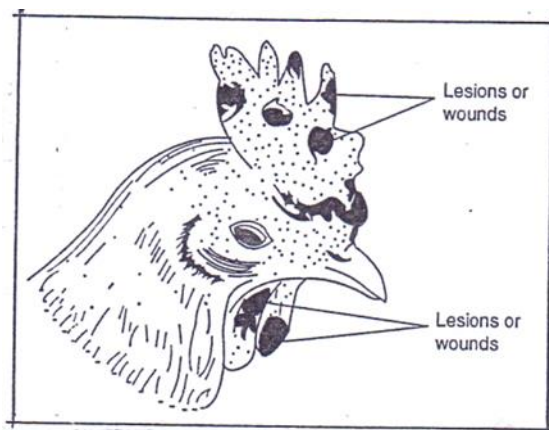
(c. Give three symptoms shown by a cow suffering from the disease above. (3mks

.....

.....

.....

18. Study the following diagram and answer questions below.



(a) Identify the above disease.

(1mark)

.....

[a].Identify the above disease [1mrk]

.....

(b)What causes the above disease?

(1mark)

.....

(c) Give two predisposing factors of the disease.

(2marks)

.....

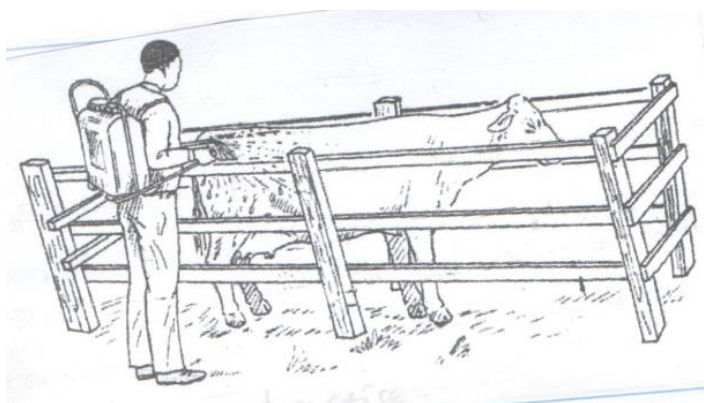
.....

(d) Give one control measure of the disease.

(1mark)

.....

19.The illustration below shows a farm practice used in controlling external parasites in livestock.
Study it and answer the questions that follows.



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(a) Identify the methods of parasite control in the illustration above (1mark)

.....

(b) Name the equipment used for the practice in the illustration (1mark)

.....

(c) State two factors that leads to maximum effectiveness when using the practice above in tick control (2marks)

.....

.....

(d) Name any other equipment that is used for the same practice (1mark)

.....

SECTION C (40 MARKS)

Answer any two questions from this section.

20.(a)Describe management practices that would ensure clean milk production in a dairy farm. (8 marks)

(b) Describe six advantages of rotational grazing. (6 marks)

(c) Describe six effects of parasites on livestock. (6 marks)

21 (a). Outline eight factors considered when selecting eggs for incubation. (8 marks)

(b) Explain five reasons for maintaining farm tools and equipment. (5marks)

(c) State seven causes of long calving intervals. (7marks)

22.(a) Describe ten uses of fences on a farm. (10 marks)

(b) State and explain the requirements of a deep litter house in poultry (10marks)

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Name Admission number
Candidate's Signature.....Date.....

MANGU SCHOOL TRIAL 1

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name, index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section **A** and **B** in the spaces provided.
- Answer any **two** questions in section **C**.

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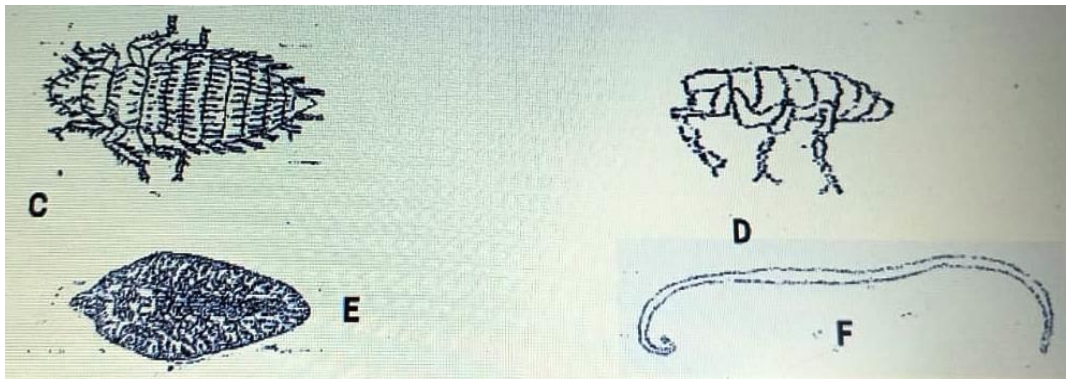
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SECTION A (30 MARKS)

1. Give three reasons for candling eggs in poultry production. (1 ½ mks)
2. Name three methods of harvesting fish in a pond (1 ½ mks)
3. Give four features of housing that help to control livestock diseases (2 mks)
4. Give three ways in which farmers market beef cattle in Kenya (1 ½ mks)
5. Give four disadvantages of inbreeding in livestock production (2 mks)
6. Name four parts of a farm building that can be reinforced using concrete (2 mks)
7. State four ways of controlling lice in poultry (2 mks)
8. Name four methods of docking in sheep rearing (2 mks)
9. State four characteristics of Duroc Jersey pig. (2 mks)
10. Name four tools that can be used to assemble a jembe (2 mks)
11. State four ways in which a vaccine can be administered to livestock (2 mks)
12. State four maintenance practices carried out on a spray race. (2 mks)
13. State four good hygiene practices in livestock feeding (2 mks)
14. State four signs of fowl typhoid (2 mks)
15. State four limitations of a tractor as a source of power on the farm. (2 mks)
16. State three signs of parturition in pigs (1 ½ mks)

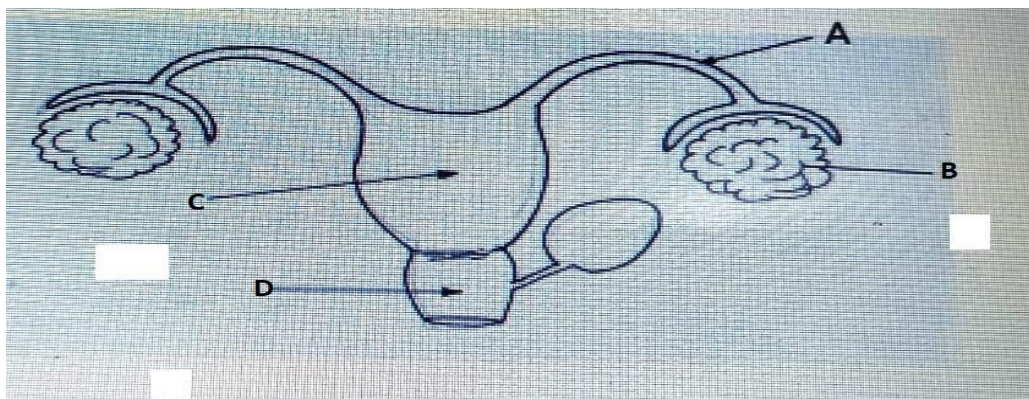
SECTION B (30 MARKS)

17. Identify each of the parasites of livestock shown below and answer the questions that follow



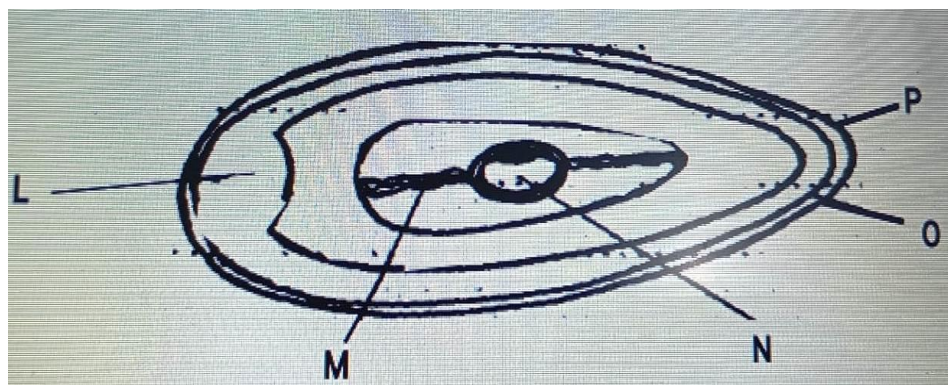
- i. Identify parasites labelled C, D, E and F (2 mks)
- ii. State harmful effect of C and D on livestock (2 mks)
- iii. State one control measure of parasite F (1 mk)

18. The diagram below illustrates the reproductive system of a farm animal. Study it and answer the questions that follow.



- Name the part labelled A, B, C and D. (2 mks)
- State the functions of part labelled A. (1 mk)
- Give two signs of oestrus in cows (2 mks)

19. Study the diagram of an egg below and answer the questions that follow.

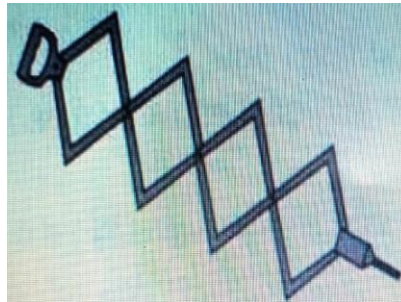


- Name the parts labelled M, L, N and O (2 mks)
- State the functions of parts M and N (2 mks)
- Why should the egg be turned during incubation (1 mk)

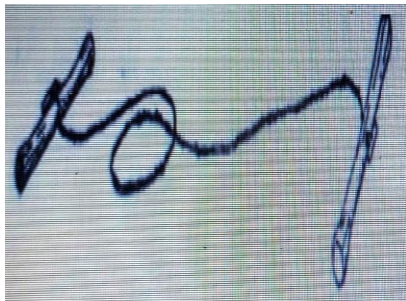
20. The diagram below represents farm tools and equipment



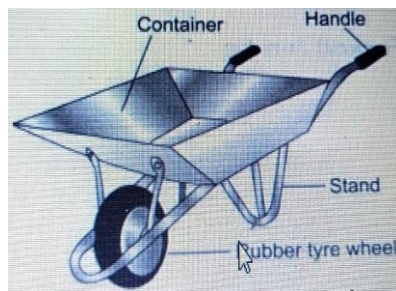
F



E



G



H

- a. Identify tools labeled E, F, G and H (2 mks)
- b. State one use of the tool labelled F [1 mk]
- c. State two maintenance practices carried out in H (2 mks)

SECTION C 40 MARKS)

21. a). Describe the management of one day old chicks in a brooder until they are eight weeks. (10 mks)
- b. Describe the control measures of tape worms (*Taenia* spp) in livestock (5 mks)
- C. Give five reasons for keeping livestock healthy (5 mks)
22. a). Describe the causes of low egg production in layers (12 mks)
- b). Explain eight factors that determine the daily feed requirements of a farm livestock(8 mks)
23. a). Describe Anaplasmosis (gall sickness) disease under the following sub headings
 - i. Causal organism (1 mk)
 - ii. Animal attacked (1mk)
 - iii. Symptoms of attack (4 mks)
 - iv. Control (2 mks)
- b). State five disadvantages of natural mating in livestock (6 mks)
- c). Give five functions of equipment used in clean milk production (6 mks)

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STAREHE BOYS CENTER SCHOOL TRIAL EXAMS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name**, **index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and B in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 13	30	
B	14 – 17	20	
C	18	20	
	19	20	
	20	20	
	Total Score	90	

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For more papers for all subjects and marking schemes

SECTION A (30 MKS)

ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

1. List four cattle diseases caused by viruses (4mks)

.....

.....

.....

.....

2. State four non-mechanical methods of controlling ticks in cattle (4mks)

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3. State four signs of heat in cattle (4mks)

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4. Mention three reasons why bees swarm (3mks)

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5. State five possible sources of power on a farm (5mks)

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6. Name four beef cattle breeds reared in Kenya (2mks)

.....

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.....

7. Give four cultural uses of livestock (2mks)

.....

.....

8. Give four ways through which the health of an animal can be restored (2mks)

.....

.....

.....

9. List any four causes of livestock diseases (2mks)

.....

.....

10. Differentiate between vectors and parasites as used in livestock health (2mks)

11. State four symptoms of ecto-parasites in poultry production

(2mks)

.....

.....

.....

12. List four factors considered when formulating livestock ratio

(2mks)

.....

.....

.....

13. Define the following terms as used in livestock production

(4mks)

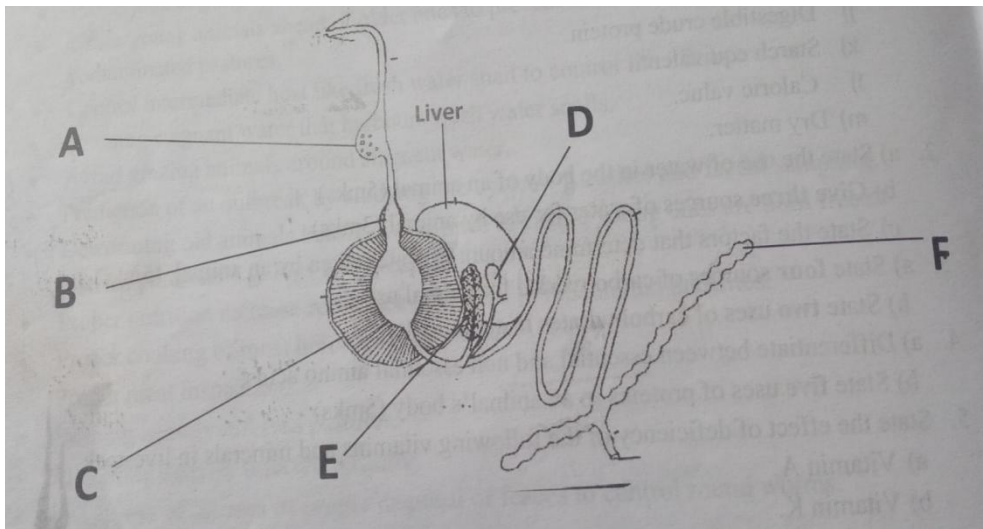
- a) Embryo transfer
- b) Artificial insemination
- c) Line breeding
- d) Cross breeding

14. State four materials that can be used in the construction of a Kenya top bar hire

(2m)

SECTION B (20 MKS)
ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

15. The diagram below shows the digestive system of poultry



a) Name the parts labeled A to F

(3mks)

- A –
- B –
- C –
- D –
- E –
- F –

b) How is the part labeled C adapted to perform its function

(2mks)

c) State the use of the parts labeled A, B , C and F

(2mks)

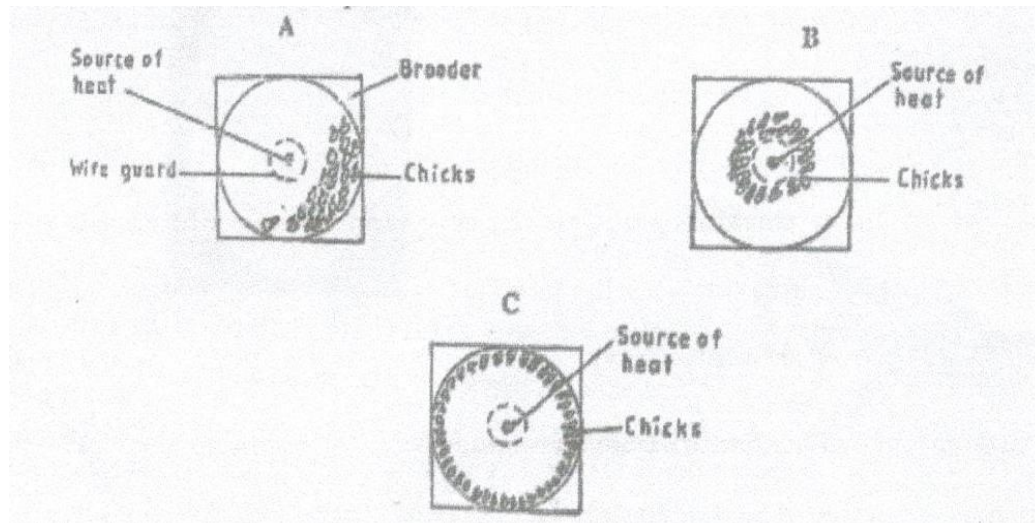
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16. The following illustrations show the behavior of chicks in a brooder. Study them carefully and answer the questions that follow



a) Explain the cause of the behavior observed in chick for each of the illustrations labeled A, B and C

(3mks)

.....

.....

.....

.....

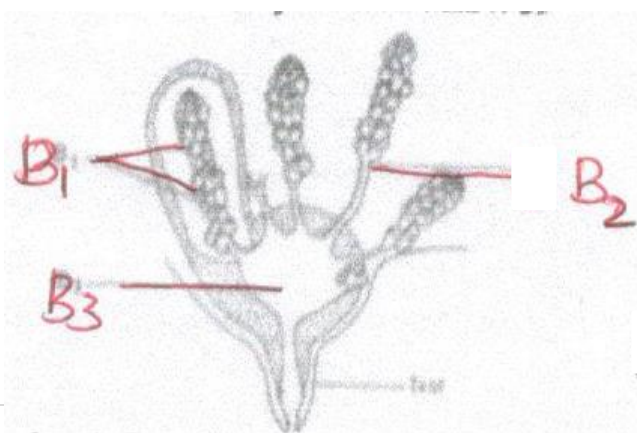
b) Give a reasons for making the brooder wall round in shape

(1mk)

.....

.....

17. The diagram below shows a cross section of an udder. Study it and answer the questions that follow



a) Identify the parts labeled B₁B₂ and B₃

(3mks)

.....

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.....

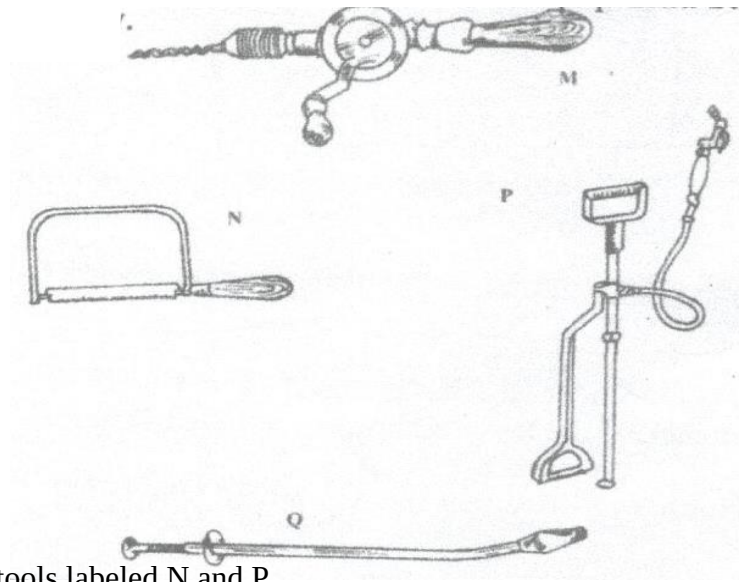
b) Give one function of the part labeled B₁

(1mk)

.....

.....

18. The diagram below represents some farm tools and equipment. Study them and answer the questions that follow



(a) Identify the tools labeled N and P

(2mks)

.....

.....

.....

(b) State one use of each of the tools labeled M and Q

(2mks)

.....

.....

.....

(c) Explain three maintenance practice carried out on the equipment labeled P (3mks)

.....

.....

.....

SECTION C (40 MKS)
ANSWER ANY TWO QUESTIONS IN THIS SECTION

19. (a) Describe causes of stress in a flock of layers (7mks)
- (b) Describe management practices carried out to ensure clean milk production (8mks)
- (c) State the disadvantages of using live fences on a farm (5mks)
20. (a) Describe the causes of low egg production in layers (10mks)
- (b) Discuss bloat disease under the following sub-headings
- (i) Species of the animals affected by the disease (2mks)
- (ii) Causes of the disease (2mks)
- (c) Symptoms of the disease (2mks)
- (d) Control measures of the disease (2mks)
- (e) Treatment of the disease (2mks)
21. (a) Describe the procedure of hand milking in a dairy cow (10mks)
- (b) Explain how the incubator should be managed for higher hatchability (5mks)
- (c) Give the functions of any five parts of a poultry egg (5mks)
- (i) The shell
- (ii) Albumen / Egg white
- (iii) Chalaza
- (iv)Yolk
- (v) Air Space
- (vi) Shell membrane

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KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name Admission number

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STAREHE GIRLS' CENTRE MOCK EXAMINATION

443/2

AGRICULTURE PAPER 2

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- Write your **name** and **index number** in the spaces provided.
- **Sign** and **write the date** of examination in the spaces provided
- This paper consists of three sections **A, B** and **C**
- Answer all questions in section **B** and **C**
- Answer any two questions in section **C**
- All the questions should be answered in the spaces provided

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAX SCORE	CANDIDATES SCORE
A	1-13	30	
B	14-17	20	
C	18-20	20	
		20	
TOTAL SCORE		90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

1. (a) Name the causative organisms of pneumonia in calves

(1mks)

.....

(b) State **two** symptoms of pneumonia in calves

(2mks)

.....

.....

(c) Give **two** ways of controlling pneumonia in calves

(2mks)

.....

.....

2. (a) Which tool will be required for the following farm operations?

(i) Cutting wool sheep

(1mk)

.....

(ii) Castrating piglets

(1mk)

(b) Give **four** reasons why feeding of colostrums is important in rearing of piglets.

(2mks)

.....

.....

3. Give **three** conditions under which a famer may prefer to use an Ox-cart instead of a tractor drawn trailer?

(3mks)

.....

.....

.....

4. Give **four** factors that should be considered when siting a beehive in a farm

(2mks)

.....

.....

.....

.....

5. State **four** management practices that would ensure maximum harvest of fishing from fishpond

(2mks)

.....

.....

.....

.....

6. Give **two** predisposing factors to foot-rot diseases in sheep

(2mks)

.....

.....

7. What is the intermediate host for liver fluke?

(1mk)

.....

8. Give **two** causes of soft shells in eggs

(1mk)

.....

.....

9. List **four** factors associated to the animal that determines the amount of feed animals consumed

(2mks)

.....

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.....

.....

10. Give **four** reasons why young rams should be docked.

(2mks)

.....

.....

.....

.....

11. List **four** cattle diseases caused by virus

(2mks)

.....

.....

.....

.....

12. State any **two** disadvantages that may arise from in breeding in livestock production (2mks)

.....

.....

13. Give **two** signs that would show that a doe is just about to give birth

(2mks)

.....

.....

SECTION B (20MARKS)

Answer ALL the questions in this section in the spaces provided

14. Study the diagrams below labeled **P, Q, R** and **S** representing some workshop tools and answer the questions that follow.

(a) Identify the tools

(2mks)

Tool	Name
P	
Q	

R	
S	

- (b) Give **one** use of tools **P** and **R** in the construction of a wooden feed trough
(1mk)

P

R

- (c) How would the tool labeled **Q** be used in the construction of a pen? (1mk)

.....

- (d) Give **two** maintenance practices carried out on tools (1mk)

.....

.....

15. Study the structure below and answer the questions that follow

- (a) Name the structure above (1mk)

.....

- (b) Name the parts labeled

(2mks)

S

T

- (c) State the functions of parts labeled

S

T

16. The diagram below represents livestock parasites

- (a) Identify the parasites **Y** and **Z** (1mk)

Y

Z

(b) In which organ in livestock is parasite **Z** found? (1mk)

(c) How is parasite **Z** passed from livestock to human being (1mk)

(d) Give **two** control measures of each parasite

(2mks)

Y

Z

17. The diagram below shows farm equipment. Study it carefully and answer the questions that follow.

(a) Identify the equipment (½mk)

.....

(b) Name the parts labeled **C** and **D** (1mk)

C

D

(c) Give the use of the parts labeled **E** (½mk)

.....

(d) State **three** conditions that must prevail in the equipment shown to make it suitable for its functions (1

½mks)

.....

.....

.....

- (e) Give **three** disadvantages of using the above equipment by small scale farmer (1
½mks)

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

SECTION C (40MARKS)

Answer only TWO questions on the separate answer sheets provided:

18. (a) Explain the factors to consider when siting farm structures (5mks)
(b) Explain the use of the fences in the farm (8mks)
(c) Give the advantages of live fences (7mks)
19. (a) Describe mastitis disease in dairy cattle under the following sub-headings:
(i) Casual organisms (1mk)
(ii) Predisposing factors
(7mks)
(iii) Symptoms
(4mks)
(iv) Control measures
(8mks)
20. (a) Describe the **four**stroke cycle of petrol cycle engine (10mks)
(b) State the disadvantages of using animal power on the farm (5mks)

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CEKANAS JOINT EXAMINATIONS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name**, **index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and B in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 20	30	
B	21 - 24	20	
C	25	20	
	26	20	
	27	20	
TOTAL SCORE		90	

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SECTION A (30MARKS)

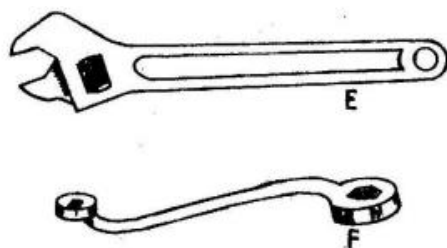
- 1) State **four** disadvantages of natural mating. (2marks)
.....
.....
.....
.....
- 2) Give **two** reasons for supplementary feeding of bees (1mark)
.....
.....
- 3) Name any **two** methods used to identify goats. (1mark)
.....
.....
- 4) List **three** signs of lambing. (1½marks)
.....
.....
.....
- 5) Explain the meaning of cropping as used in fish production. (1mark)
.....
.....
- 6) State **two** reasons why jersey breed is suitable than Friesian in marginal areas. (1mark)
.....
.....
- 7) State **four** methods used to control cannibalism in a flock of layers in a deep litter system. (2mks)
.....
.....
.....
.....
- 8) State **two** reasons why we have a footbath in a cattle dip. (1mark)
.....
.....
- 9) State **four** uses of solar energy in the farm. (2marks)
.....
.....
.....
.....
- 10) List **four** functions of water in an animal's body. (2marks)
- 11) State **four** reasons for controlling livestock diseases. (2marks)
.....
.....
.....
.....
12. State **one** importance of guard rails in a farrowing pen. (1mark)

13. List **two** groups of vitamins used in livestock feeding. (1mark)
-
-
-
14. State the functions of the following farm tools
- Shovel (½mark)
- Rubber ring and elastrator (½mark)
15. List **three** control measures for fowl pox disease in poultry (1½mark)
-
-
-
16. What is a production ration? (1mark)
17. State **two** maintenance practices carried out on slasher. (1mark)
18. Name the hormone responsible for milk let down (½mark)
-
-
-
19. List any **two** chemicals used to treat wood against weather elements. (1mark)
-
-
-
20. State any **four** characteristics of exotic breeds of cattle. (2marks)
-
-
-
-
-
21. State **three** uses of biogas on a farm. (1½marks)
-
-
-
-
22. State **four** practices done to make wooden fence posts last longer. (2marks)
-
-
-

SECTION B (20mks)

23. A dairy farmer is required to prepare 100kgs of dairy meal containing 20% DCP (Digestible crude protein). Using the Pearson's square method, Calculate the quantity of soya beans 40% DCP and rice 16% DCP the farmer requires for the dairy meal. (5marks)

24. The following diagrams illustrate some workshop tools. Study them carefully and answer the question that follows.



(a). Identify the tools labeled E and F (2marks)

E.....
F.....

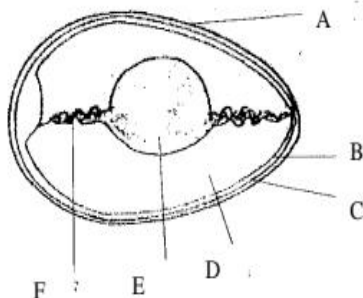
(b). State the functional advantage tool E has over tool F. (1marks)

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

(c) State **two** maintenance practice carried out on tool E. (2marks)

.....
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25. Study the diagram below of an egg and use it to answer the questions that follow.

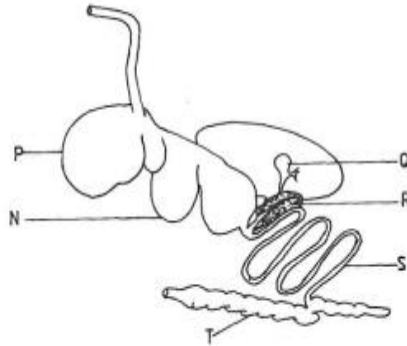


A. Name the parts labeled B, C, D and F. (2marks)

B. List any **two** structural qualities of an egg to be incubated. (2marks)

C. Give the functions of part labeled E in a fertilized egg (1mark)

26. The diagram below shows the parts of the digestive system of cattle. Study it and answer the questions that follow.



a) Name the parts labeled N, P, R and Q. (2marks)

N.....
P.....
R.....
Q.....

b) List **three** microbial activities that take place in the part labeled P. (3marks)

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

SECTION C (40MARKS) **ATTEMPT ANY TWO QUESTIONS IN THIS SECTION**

27. a) Discuss the preparation of the brooder before the arrival of chicks. (5marks)

b) Describe the management practices carried out on ewes two weeks before mating to weaning of lambs. (15marks)

28. (a) Outline any **eight** control measures for ticks. (8marks)

(b) Outline the daily maintenance practices that should be carried out on a farm tractor. (12 marks)
29. (a) Describe the uses of **five** materials and equipment required during hand milking (10marks)

b) Discuss mastitis disease under the following sub –heading

i. Animals affected (1mark)

- | | | | |
|------|-----------------------|----------|----------|
| ii. | Casual organism | (1mark) | |
| iii. | Predisposing factors | (4marks) | |
| iv. | Control and treatment | | (4marks) |

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Candidate's Signature.....Date.....

CRESCENDO JOINT EXAMINATIONS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name**, **index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and B in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 20	30	
B	21 - 24	20	
C	25	20	
	26	20	
	27	20	
TOTAL SCORE		90	

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SECTION A [30 MARKS]

Answer All The Questions in The Spaces Provided.

1. Mention **four** control measures undertaken to control brucellosis in cattle. [2 marks]
 - (i)
 - (ii)
 - (iii)
 - (iv)
2. State **four** breeds of rabbits [2mark]
 - (i)
 - (ii)
 - (iii)
 - (iv)
3. List any **two** physiological conditions of livestock that may be assessed to determine the health status of the animal. [1 ½ mark]
 - (i)
 - (ii)
4. State **two** ways of preventing predation in a fish pond. (1 mark)
 - (i)
 - (ii)
5. State **four** factors considered when selecting eggs for sale [2 marks]
 - (i)
 - (ii)
 - (iii)
 - (iv).
6. State **four** observations on behavior of chicks under excess heat in the brooder that a farmer may notice. [2marks]
 - (i)
 - (ii)
 - (iii)
 - (iv).
7. State **four** advantages of embryo transplant (2 mark)
 - (i)
 - (ii)
8. Differentiate between mothering ability and prolificacy [2 marks]

9. Name **four** practices carried out in the crush (2 marks)
- (i)
(ii)
(iii)
(iv).
10. Give **four** reasons why young rams should be docked. [2marks]
- (i)
(ii)
(iii)
(iv).
11. Give any **two** methods of selection done on livestock [1 mark]
- (i)
(ii)
12. List **four** mechanical methods of tick control in a farm [2 marks]
- (i)
(ii)
(iii)
(iv).
13. State **two** factors that determine the quality of honey [1mark]
- (i)
(ii)
14. Give the terms used to describe the following
- (i) Mature male pig (1 mark)
.....
- (ii) Sterilised male birds ($\frac{1}{2}$ mark)
.....
- (iii) Mature female goat ($\frac{1}{2}$ mark)
.....
- 15.State **four** qualities considered when selecting a heifer for dairy purposes [2 marks]
- (i)
(ii)
(iii)
(iv).

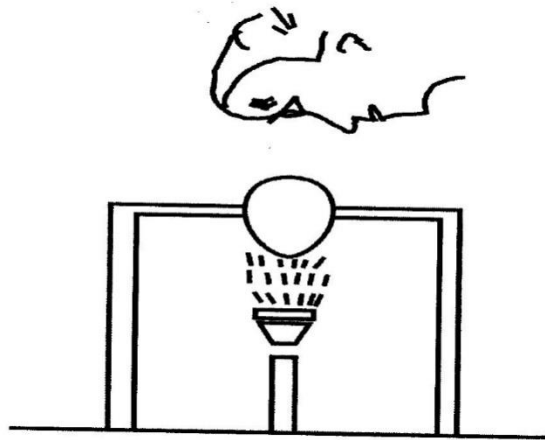
16. Give **one** role of a damp proof course in the foundation of a farm building. (1 mark)
 (i)
17. State any four causes of cannibalism in poultry production. (2 marks)
 (i)
 (ii)
 (iii)
 (iv).
18. Name the breed of camel with two humps (1½ marks)
 (i)
19. Give the functional difference between a rip saw and a tenon saw. (1 mark)
 (i)

20. Define the term steaming up as used in livestock production (1 mark)

SECTION B [20 MARKS]

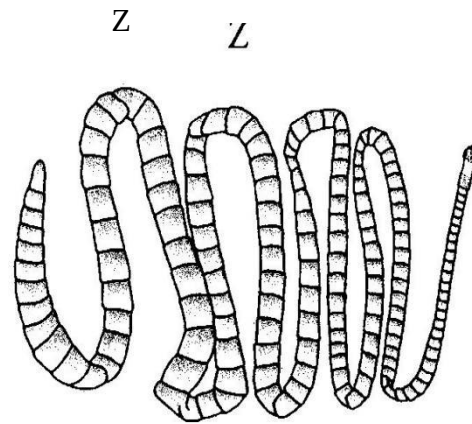
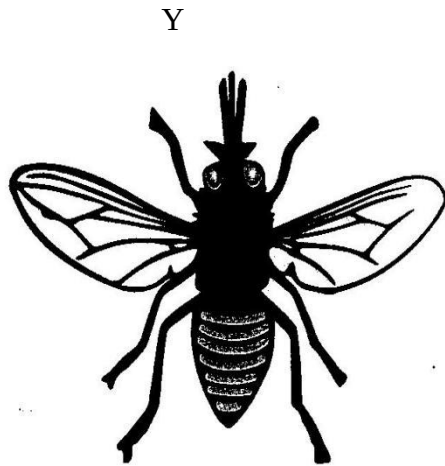
Answer all questions in this section

21. Below is an activity carried out in poultry production? Study it carefully then answer the questions that follow



- a) Identify the practice being carried out(1 mark)
- b) State **three** defects that can be detected by this practice. (3 marks)
 (i)
 (ii)
 (iii)
- c). State **one** disadvantage of artificial incubation. (1 mark)

22. The diagram below represents livestock parasites



(a) Identify the parasites Y and Z (1 mark)

.....

(b) In which organ in livestock is parasite Z found? (1mark)

.....

(c) How is parasite Z passed from livestock to human being (1 mark)

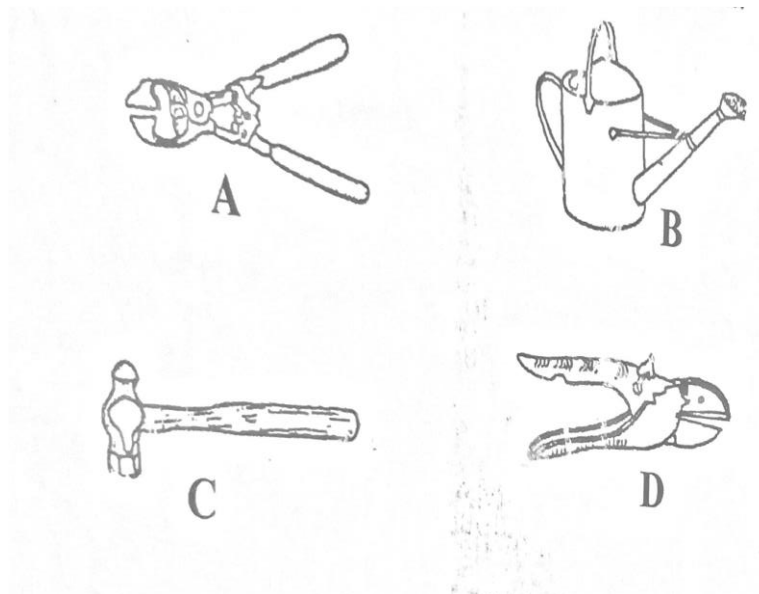
.....

(d) Give a control measure of each parasite Y and Z (2 marks)

.....

Below are illustrations farm tools and equipment

(a).Identify the tool/equipment labelled A and B (2 marks)



(b). State **two** appropriate uses of the tools labelled C (1 mark)

.....

.....

(c). Explain **two** maintenance practices of the tool labelled D.

(2 mark)

24. A farmer wants to prepare a ration for layers containing 18% DCP. Using maize germ 20% DCP and a wheat grain 10% DCP

(a). Calculate using Pearson's square method the amount of each food stuff needed in order to prepare 100kg of feeds. (4 marks)

(b). State any other method used in computation of food ratio.

(1mark)

SECTION C [20 MARKS]

Answer all questions in this section

25. (a). Describe conditions under which bees abscond the hive.

(5 marks)

(b). Describe the causes of stress in poultry management.

(10 marks)

(c). Describe the uses of fences on the farm.

(5 marks)

26. (a). Explain **four** factors that affect digestibility of food in livestock.

(8 marks)

(b). Explain the essentials of clean milk production.

(7 marks)

(c). State the disadvantages of clean natural method of mating.

(5 marks)

27. (a). State **four** advantages of using a sub soiler in seedbed preparation.

(4 marks)

(b). Give **six** advantages of artificial insemination in cattle management.

(6 marks)

(c). Explain **ten** functions of water in animal's body.

(10 marks)

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Name Admission number

Candidate's Signature.....Date.....

EAGLES JOINT EXAMINATION TRIAL 1

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES

- (a) Write your name, index number, admission number and class in the spaces provided.
(b) Sign and write the date in the spaces provided above.
(c) Answer **all** the questions in section A and B.
(d) Answer any **two** questions in section C.
(e) Answers should be written in the spaces provided.
(f) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

For Examiner's Use Only

	Question	Maximum Score	Candidate's Score
A	1-18	30	
B	19-21	20	
C		20	
		20	
Total score		90	

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SECTION A – (30 Marks)

Answer all the questions in this section in the spaces provided

1. State **three** reasons for castrating a billy goat. (1 ½ marks)

.....

.....

.....

.....

2. Give reasons for maintaining farm machines (2 marks)

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.....

3. Name **three** functions of lubricating system (1 ½ marks)

.....

.....

.....

4. Name implements powdered by P.T.O: (1½ marks)

.....

.....

.....

- 5 Give **four** disadvantages of using a hedge as a fence. (2marks)

.....

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6. State the **four** methods a farmer can use to control livestock diseases. (2marks)

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7. Give **four** notifiable diseases in livestock. (2 marks)

.....

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.....

8. a) State the advantages of artificial method of calf rearing (2 marks)

.....

.....

b) Give three factors that enable ruminants to break down fibrous feed material.

(1½ marks)

9. List the **main** source of electrical power.

(2 marks)

10. Name a tool used for tightening barbed wires during fencing.

(1/2 mark)

11. Name the hormone that influences milk synthesis in lactating cattle.

($1/2$ mark)

12. State the part of digestive system of a rabbit that enables it to digest vegetative feed.

($1/2$ mark)

13. Name the part of the tractor where trailed implements are attached.

(1/2 mark)

14. State **three** uses of green houses on the farm.

(1 ½ marks)

15. State **four** dual purpose breeds of cattle reared in Kenya.

(2 marks)

.....
.....
.....
16. State **two** functions of a thermostat on a cooling system of a tractor engine. (1 mark)
.....
.....
.....

17. State **two** routes of a vaccination against. (1 mark)
.....
.....
.....

18. What is culling in livestock? (½ mark)
.....
.....

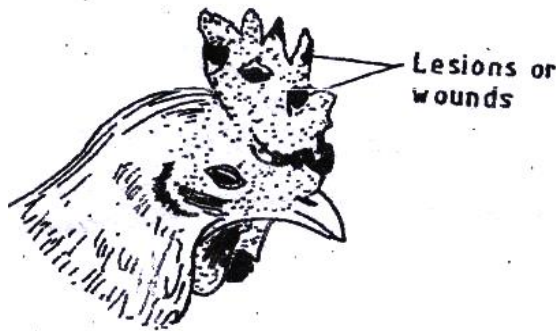
19. Name **four** warm fresh water fish (2 marks)
.....
.....
.....

20. Give the functional difference between a Tenon Saw and a rip saw. (1 mark)
.....
.....
.....

SECTION B – (20 Marks)

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

21. The following diagram illustrates a symptom of a disease in poultry. Study it carefully and answer the questions that follow.



(a) Identify ;

(i) The disease

(1 mark)

(ii) The causal organism

(1 mark)

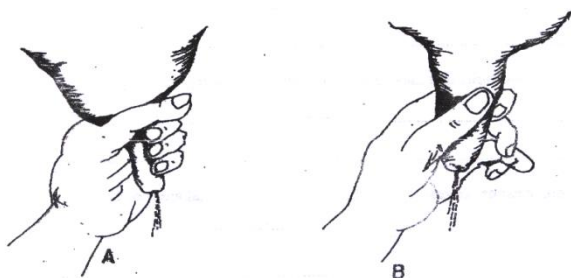
(b) Apart from lesions, state **two** other symptoms of the disease.

(2 marks)

(c) State **two** control measures for the disease

(2 marks)

22. Below is a diagram showing a practice carried out in dairy cattle. Study and answer the questions that follow.



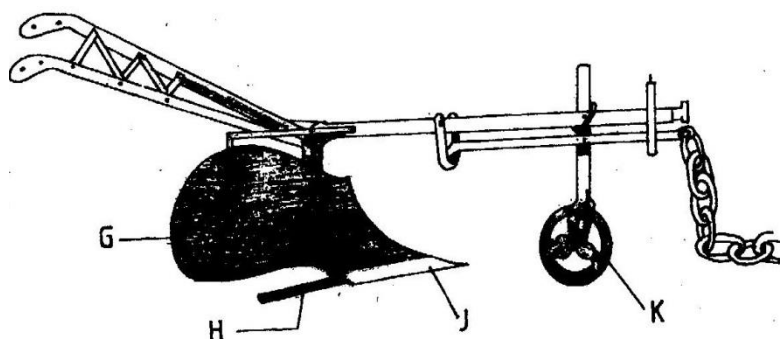
(a) Identify the appropriate techniques for milking

(1 mark)

(b) Describe the procedure of milking technique in (a) above

(2 marks)

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



a) Identify the farm implement illustrated above.

(1 mark)

b) Name the parts labeled G, H, J and K.

(4 marks)

G

H

J

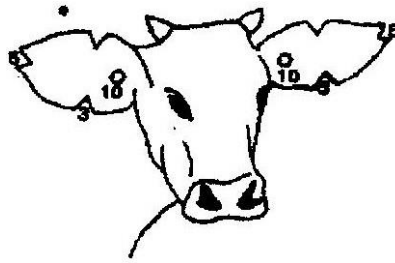
K.

c) State **four** functions of the farm implement illustrated as G and H . (2 marks)

G

H

24. The diagram below illustrates a method of identification in livestock production. Study the diagram and answer the Questions that follow.

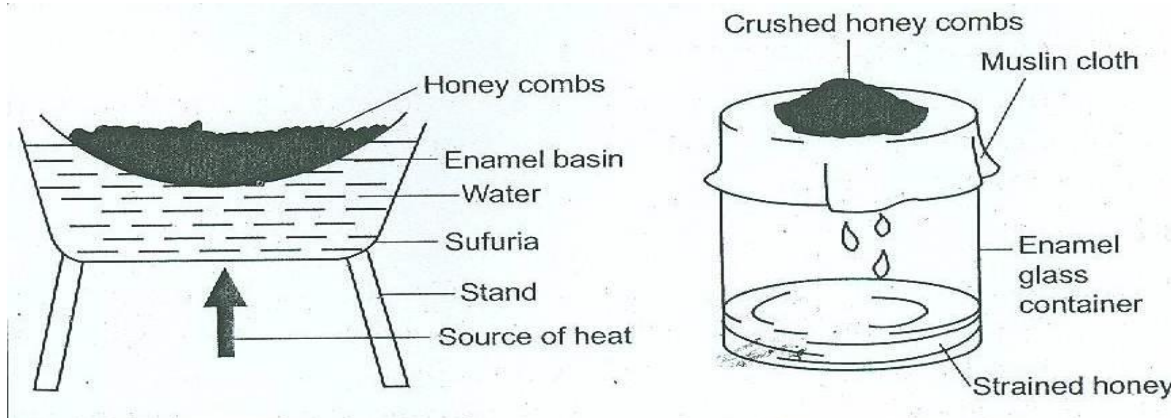


i) Name the type of identification illustrated above. (1 mark)

ii) Give the identification number of the animal illustrated in the diagram above.

(1 mark)

25. Diagram R₁ and R₂ are illustration of an activity in bee farming. Study it carefully and answer the questions that follow.



R₁

a) Identify the activity in R₁ and R₂.

R₁

R₂

b) State **two** factors which affect the quality of the above honey.

(2 marks)

(1 mark)

SECTION C: (40 marks)

Answer two questions from this section

26. a) Explain **ten** Characteristics of a poor layer that a farmer should look for in a hen during culling.

(10 marks)

b) Describe **ten** daily maintenance practices that should be carried out on a farm tractor.

(10 marks)

27. a) Explain the importance of keeping livestock healthy.

(10 marks)

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

(10 marks)

28. a) Describe the procedure followed when constructing a barbed wire fence.

(5 marks)

b) Describe **ten** advantages of battery system in rearing poultry.

(10 marks)

c) Explain **five** functions of any parts of a zero grazing unit in dairy farming.

(5 marks)

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Name Admission number
Candidate's Signature.....Date.....

KALA JOINT TRIAL 1

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name, index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section A and B in the spaces provided.
- Answer any **two** questions in section C.

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 20	30	
B	21 - 24	20	
C	25	20	
	26	20	
	27	20	
TOTAL SCORE		90	

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SECTION A (30 MARKS)

1. List **three** types of calf pens (1 ½ mks)
.....
.....
.....
2. Name **four** systems of a tractor engine (2 mks)
.....
.....
.....
.....
3. Give **two** reasons for using litter in a poultry house (2mks)
.....
.....
4. Name **two** diseases of poultry that are controlled by vaccination (1 mk)
.....
.....
5. State **two** factors that could lead to failure to conceive in sows after service (1 mk)
.....
.....
6. Give **two** causes of scouring in calves (2 mks)
.....
.....
7. State **three** factors that would determine the amount of concentrate fed to dairy cattle (1 ½ mks)
.....
.....
.....
8. Give **three** ways of stimulating milk let down in a dairy cow (1 ½ mks)
.....
.....
.....
9. List **two** equipments used in handling cattle during an Agricultural exhibition (1 mk)
.....
.....

10. State **three** signs of anthrax injection disease observed in the carcass of a cattle (1 ½mks)
-
-
-
11. Give any **two** effects of external parasites that are harmful to livestock (2 mks)
-
-
12. Name **four** breeds of dairy goats (2 mks)
-
-
-
-
13. Give **one** function of the clutch (1 mk)
-
14. State **two** adjustments that should be carried out on a tractor – mounted mould board plough in preparation for ploughing (2 mks)
-
-
15. List the methods of selection in livestock (1 ½ mks)
-
-
-
16. Differentiate between active immunity and acquired passive immunity (2 mks)
-
-
-
-
17. Define the following terms as used in livestock breeding (2 mks)
- i) **Heterosis**
-
-
- ii) **Epistasis**
-

18. State **three** signs of heat in Does (Female Rabbits)

(1 ½ mks)

19. Give the gestation period of the following:

(1 ½ mks)

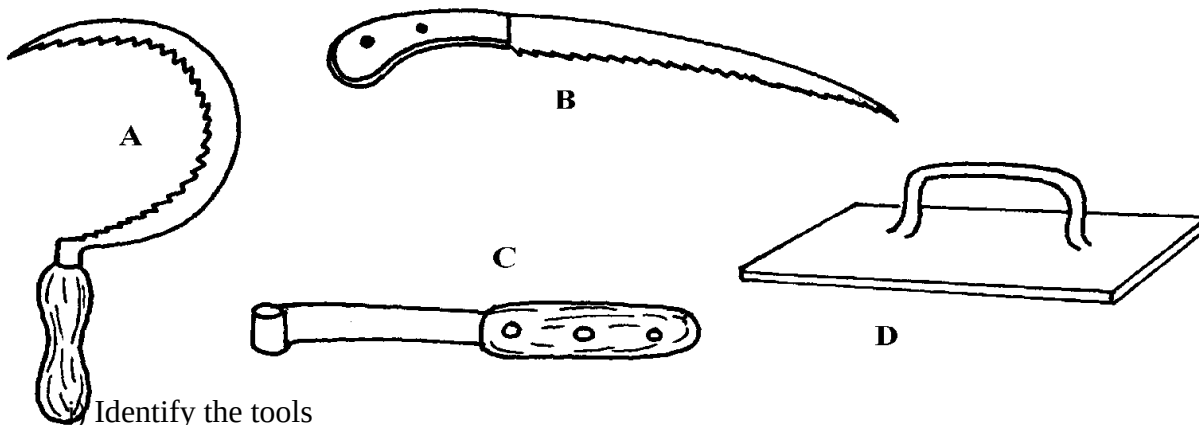
i) Cow

ii) Sow

SECTION B (20 MARKS)

Answer all the questions in this section in the space provided

20. Study the diagram below and answer the questions that follow;



(2 mks)

A.....

B.....

C.....

D.....

ii) Give the use of each of the tools named above

(4 mks)

A.....

B.....

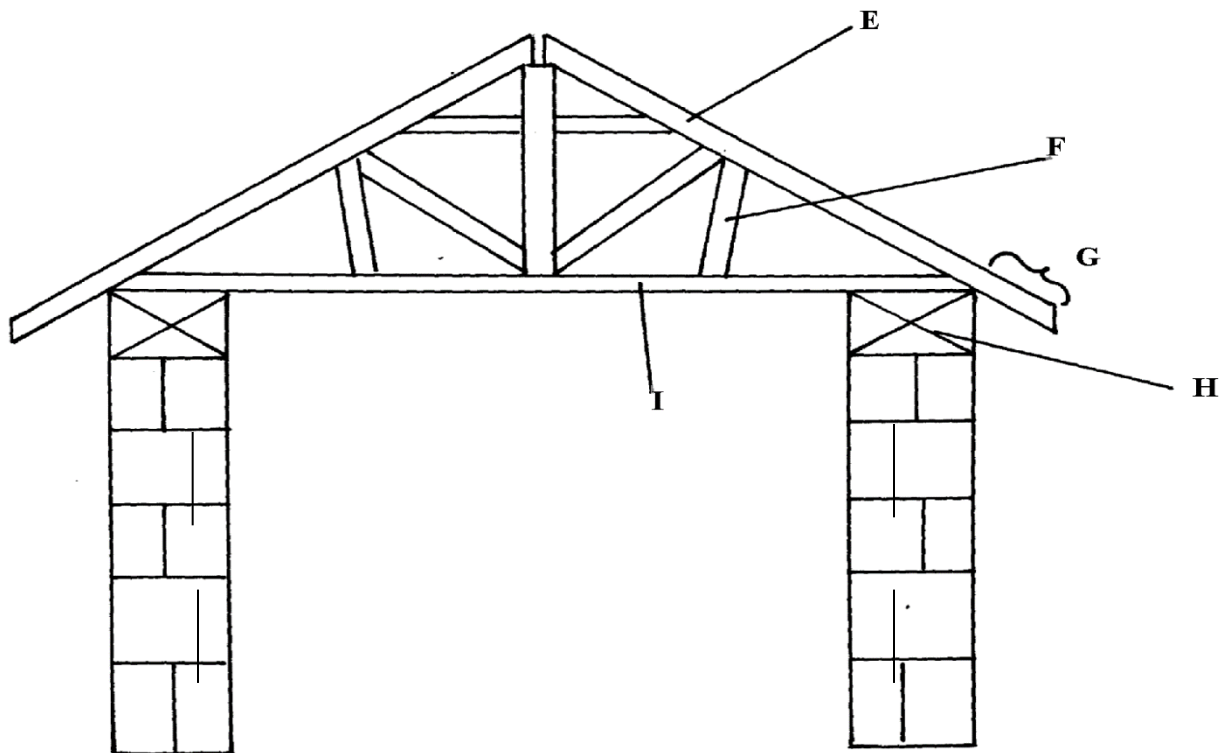
C.....

D.....

iii) State **two** maintenance practices that should be carried out on tool **D**

(2 mks)

21. Study the illustration of a farm structure below and answer the questions that follow



i) Name the parts labeled

(2 mks)

E

F

G

H

ii) State the function of the parts labeled

E

F

G

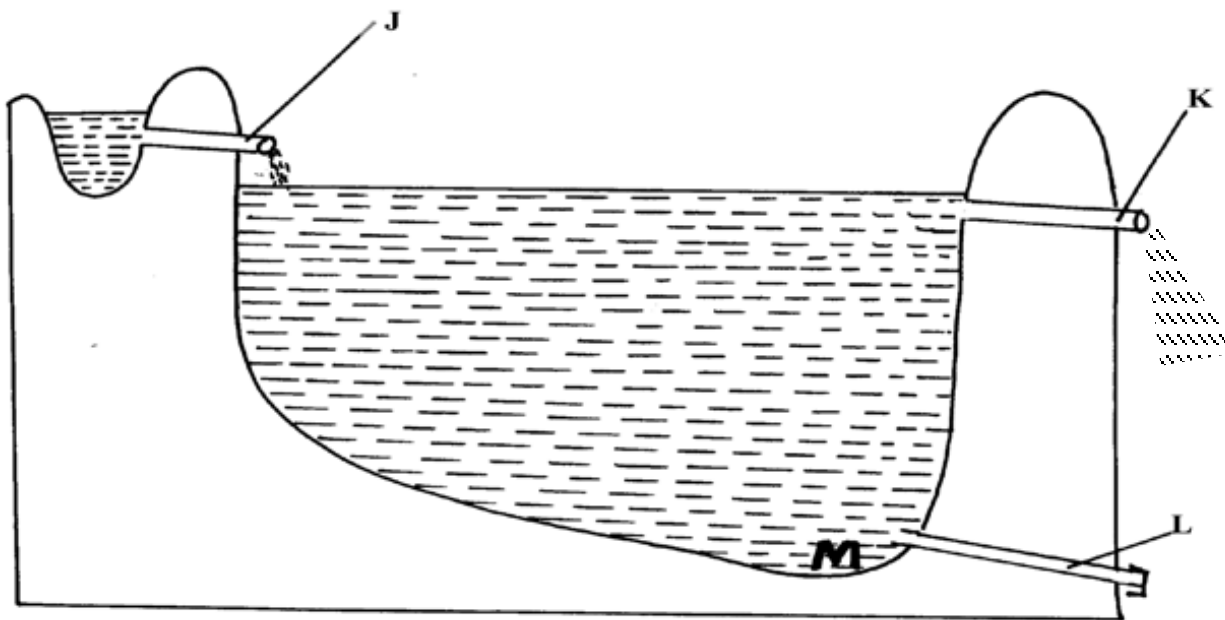
H

iii) Name **two** chemicals preservatives used to treat the wooden parts of the structure against insects and fungal damage

(1 mk)

.....

22. Below is a diagram of a fish pond, study it and answer the questions that follow



i) Label the parts marked **K** and **L**

(1 mk)

.....

.....

ii) Give a reason why part **M** is usually deeper than the rest of the pond

(1 mk)

.....

.....

iii) State **three** maintenance practices carried out in the pond

(3 mks)

.....

.....

.....

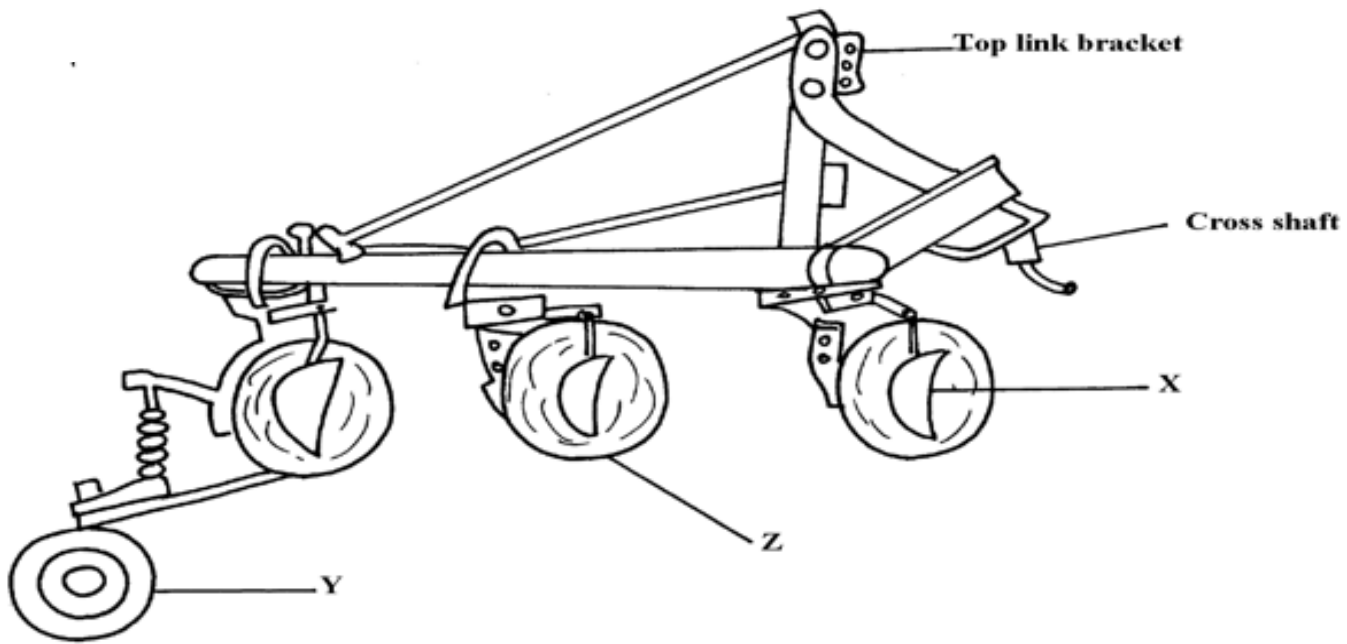
23. Outline the procedure followed when hand-spraying cattle to ensure effective use of acaricides to control ticks

(5 mks)

.....

.....

24. The diagram below illustrates a farm implement. Study it and answer the questions that follow



a) Identify the implement

(½mks)

.....

b) Name the parts labeled X, Y and Z

(1 ½ mks)

X

Y

Z

c) State **three** maintenance practices that are carried out on a disc plough

(3 mks)

.....

.....

.....

SECTION C (40 MARKS)

Answer any two questions only in the spaces provided after the last question

25. a) Explain **five** factors to consider when siting a fishpond (8 mks)

b) Explain the measures used to control livestock diseases (12 mks)

26. a) Describe the operational differences of a disc plough and mould board plough (10 mks)

b) Explain **six** marketing problems affecting dairy farming in Kenya (6 mks)

c) State **four** reasons for culling a boar (4 mks)

27. a) A boar gained 90Kg live weight after eating 360Kg pig finisher meal over a period of

- time. Calculate the feed conversion ratio (2 mks)
- b) Describe digestion in the four stomachs of the ruminant animal (14 mks)
- c) Give the significance of lubrication system (4 mks)

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Name Admission number

Candidate's Signature.....Date.....

KASSU JET TRIAL 1

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES

- (a) Write your name, index number, admission number and class in the spaces provided.
- (b) Sign and write the date in the spaces provided above.
- (c) Answer **all** the questions in section A and B.
- (d) Answer any **two** questions in section C.
- (e) Answers should be written in the spaces provided.
- (f) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

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	Question	Maximum Score	Candidate's Score
A	1-18	30	
B	19-21	20	
C		20	
		20	
Total score		90	

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SECTION A (30MARKS)

Answer ALL the questions in the spaces provided

1. State **four** control measures of a liver fluke in livestock. (2 marks)

2. What is “dry cow therapy” in dairy cattle management? (1 mark)

3. State **four** causes of stress in poultry. (2 marks)

4. Highlight **two** management practices carried out on a broody hen. (2 marks)

5. Distinguish between mothering ability and prolificacy as used in livestock breeding. (2 marks)

6. Outline **four** activities that necessitate handling of livestock. (2 marks)

7. State **four** symptoms shown by an animal attacked by round worms. (2 marks)

8. Name **four** sources of protein for livestock nutrition. (2 marks)

9. State **four** signs of parturition shown by a incalf cow. (2 marks)

10. State the uses of the following farm tools and equipment.

i) Secateurs (1 mark)

ii) Sickle (1 mark)

iii) Bolus gun (1 mark)

11. State **four** maintenance practices carried out on a wheel barrow. (2 marks)

12. Outline **four** factors considered when sorting and grading eggs for market. (2 marks)

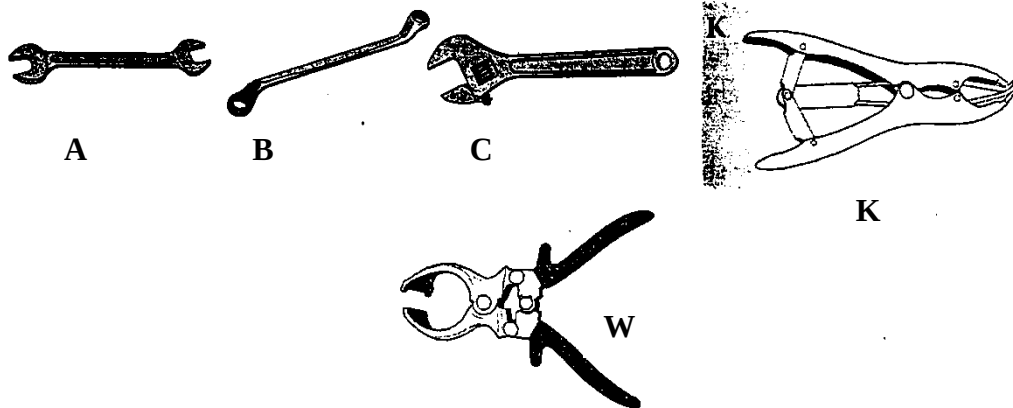
13. State **four** reasons for feeding colostrum to calves immediately after parturition. (4 marks)

14. Name **four** tractors drawn implement attached to power take off shaft (P.T.O) (2 marks)

SECTION B (20marks)

Answer ALL the questions in the spaces provides

15. The diagrams below show some farm tools study them and answer the question that follow.



a) Name the tools. (2 marks)

A _____

B _____

C _____

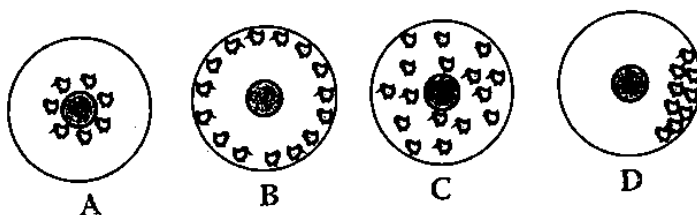
W _____

b) State the functional differences between tools K and W. (1 mark)

c) What advantage does C have over A and B? (1 mark)

d) State **one** common maintenance practice carried out in tool C and W. (1 mark)

16. The illustrations below show the behavior of chicks at different temperatures in the brooder.



a) Explain the temperature conditions in each of the four diagrams A, B, C and D. (4 marks)

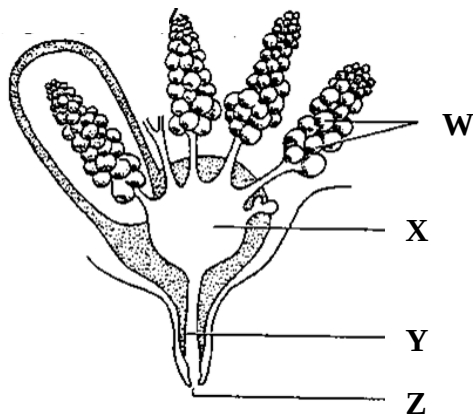
A _____
B _____
C _____
D _____

b) State any **four** requirements of good brooder. (2 marks)

c) Give reasons why dim or dull lights are recommended in brooder. (1 mark)

17. a) The diagram below shows a structure of the udder of a cow. Name the part labeled W, X,Y and Z.

(2 marks)



W _____

X _____

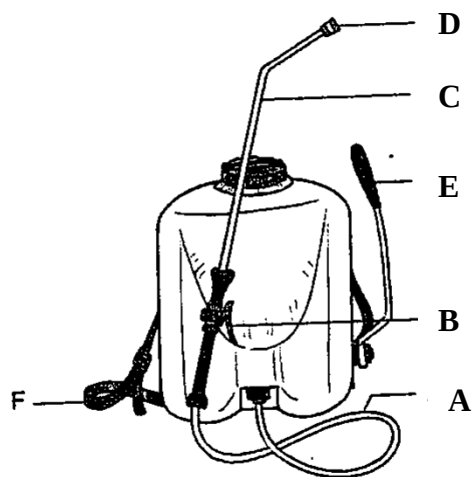
Y _____

Z _____

b) What is milk let down ? (1 mark)

c) Name **two** hormones that control milk let down in dairy cow. (1 mark)

18. Below is a diagram of knapsack sprayer. Study it carefully and answer the questions that follow



a) Name the parts labeled A, B, C and D. (2 marks)

A _____
B _____
C _____
D _____

b) State **two** maintenance practices that should be carried out on the Knapsack sprayer. (1 mark)

c) State the functions of the part labeled E and F. (1 mark)

E _____

F _____

SECTION C (40MARKS)

Answer any TWO questions in this section in the spaces provided after question 21

19. a) State **five** differences between ruminants and non- ruminants. (5 marks)
- b) Describe **five** maintenance practices carried on tractor drawn disc plough. (5 marks)
- c) Discuss calf rearing from birth to first calving. (10 marks)
-
20. a) State **five** reasons why bees swarm. (5 marks)
- b) Describe **five** maintenance practices carried out on a tractor battery. (5 marks)
- c) State signs shown by a cow on heat. (5 marks)
- d) Explain **five** methods of tick control. (5 marks)
-
21. a) State **five** qualities of eggs for incubation. (5 marks)
- b) Describe the management carried out in artificial egg incubator.
- c) Describe the preparations you would make in brooder before the arrival of day old chicks and their care for the first two days. (10 marks)

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Candidate's Signature.....Date.....

LANJET JOINT EXAMINATIONS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES

- (a) Write your name, index number, admission number and class in the spaces provided.
(b) Sign and write the date in the spaces provided above.
(c) Answer **all** the questions in section A and B.
(d) Answer any **two** questions in section C.
(e) Answers should be written in the spaces provided.
(f) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

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	Question	Maximum Score	Candidate's Score
A	1-18	30	
B	19-21	20	
C		20	
		20	
Total score		90	

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SECTION A (30 MARKS)

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

1. State four heavy breeds in poultry (2 marks)
.....
.....
.....
.....
.....
2. Give two effects of sheep lice infection in sheep production (1 mark)
.....
.....
.....
3. State the advantages of contemporary comparison in selection of livestock. (2 marks)
.....
.....
.....
.....
.....
4. State two reasons tailing in sheep management (2 marks)
.....
.....
.....
.....
5. State two functions of differential in a tractor transmission system. (1 mark)
.....
.....
.....
6. Give four effects of protein deficiency in livestock production. (2 marks)
.....
.....
.....
.....
.....

7. State four predisposing factors of pneumonia in livestock production. (2 marks)

.....

.....

.....

.....

.....

8. Give four factors influencing milk let down in dairy cattle production. (2 marks)

.....

.....

.....

.....

.....

9. Name four instances where animal power is advantageous over other form of powers. (2 marks)

.....

.....

.....

.....

.....

10. State four reasons for handling dairy cattle in livestock production. (2 marks)

.....

.....

.....

.....

.....

11. Give factors considered in choice of rearing systems in poultry production. (2 marks)

.....

.....

.....

.....

.....

12. State four factors that affect the choice of feed stuff in livestock. (2marks)

.....

.....

.....

.....

13. Give four practices carried out on fish before preservation. (2 mark)

.....

.....

.....

.....

.....

14. State four disadvantages of live fence in livestock production. (2 marks)

.....

.....

.....

.....

.....

15. a) Give four prophylactic measures used in controlling diseases in livestock. (2 marks)

.....

.....

.....

.....

.....

b) State four mechanical measures of controlling ticks in livestock production. (2 marks)

.....

.....

.....

.....

.....

16. State two functions of caecum in poultry production. (1 mark)

.....

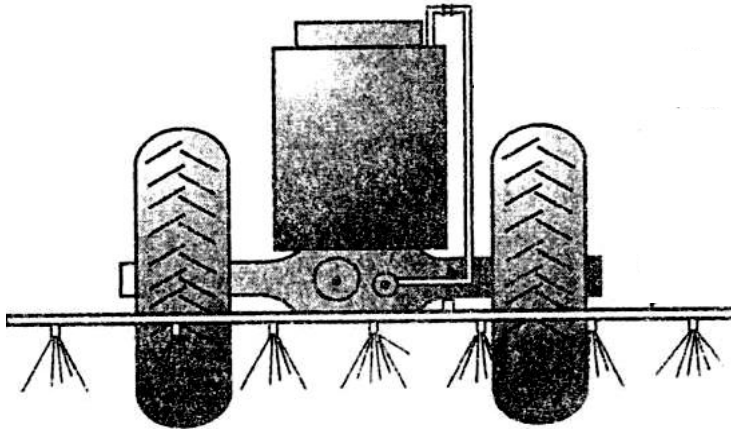
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.....

SECTION B (20 MARKS)

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

17. Below is a diagram illustrating a farm implement, Study it and answer the questions that follow.



a) Identify the implement illustrated above. (1 mark)

.....
.....

b) State the use of the implement on the farm. (1 mark)

.....
.....

c) Explain three maintenance practices carried out on the implement. (3 marks)

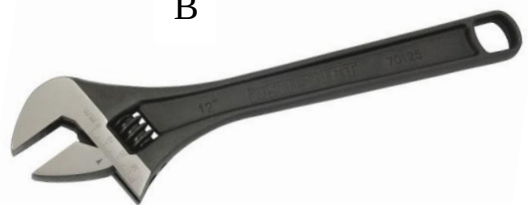
.....
.....
.....
.....

18. Below are illustrations of farm tools and equipment.

A



B



C



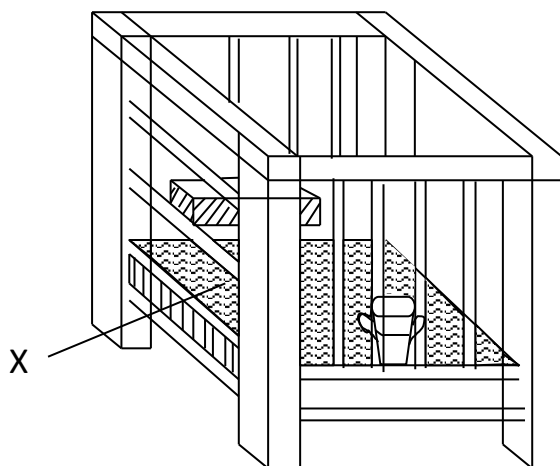
- a) Identify the tool labelled A and C
 A (1 mark)

 B (1 mark)

- b) State the advantage of tool B over tool C (1 mark)

- c) State two maintenance practices carried out on tool labelled B. (2 marks)

19. Below is a farm structure. Study it carefully and answer the questions that follow.

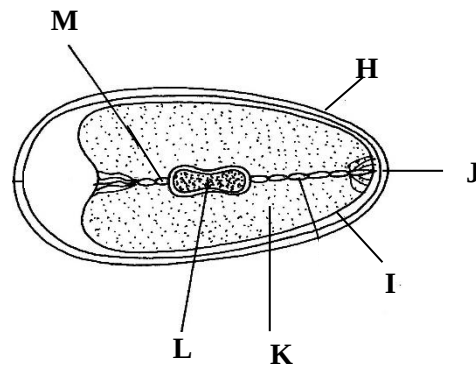


- a) Identify the farm structure above (1 mark)

- b) State the requirement of the part labelled X (1 mark)

- c) State three maintenance practices that should be carried on the structure. (3 marks)

20. The diagram below is an illustration of an egg. Study it carefully and answer the questions that follow.



- a) Name the parts labelled I, J, K and M. (2 Marks)
-
-
-
-
- b) Give two qualities of the part labelled H that would be considered when selecting eggs for incubation. (2 Marks)
-
-
-
-
- c) What is the function of the part labelled L (1 Mark)
-
-

SECTION C (40 Marks)

Answer any two questions from this section.

21. a) State five reasons for feeding livestock (5 marks)
- b) Describe the factors a farmer should consider when selecting a gilt for breeding. (8 marks)
- c) Outline routine management practices that should be carried out on a lactating ewe. (7 marks)
22. a) Outline routine maintenance practices that should be carried out in deep litter system. (6 marks)
- b) State eight practices that would ensure clean milk production. (6 marks)
- c) Compare the use of an ox-drawn mouldboard plough with that of a tractor drawn plough (10 marks)
23. a) Describe the importance of farm mechanization. (6 marks)
- b) Describe East Coast Fever under the following sub headings
- a) Causal organism (1 marks)
- b) Signs of infection (5 marks)
- c) Control measures (3 marks)
- c) Outline five causes of stress in poultry. (5 marks)

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Name Admission number
Candidate's Signature.....Date.....

MIRROR JET JOINT EXAMS

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name, index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section **A** and **B** in the spaces provided.
- Answer any **two** questions in section **C**.

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Section	Questions	Maximum score	Candidate score
A	1 -19	30	
B	20 -23	20	
C		20	
		20	
Total score		90	

SECTION A (30MARKS)

INSTRUCTIONS: ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.

1. Name **two** camel species reared in arid and semi-arid areas. (1mark)
.....
.....
2. Give **one** reason why fresian's milk is more whitish while jersey milk is yellowish. (1mark)
.....
.....
3. State **two** roles of a drone in a bee hive (2marks)
.....
.....
.....
4. What do you understand by the term **raddling** as used in sheep management. (1mark)
.....
.....
.....
.....
5. List **four** conditions that an animal structure should meet in order to help in controlling livestock diseases. (2marks)
.....
.....
.....
.....
6. List **four** physical characteristics of a dairy cow. (2marks)
.....
.....
.....
.....
.....
7. Distinguish between **stress** and **vices** as used in poultry production (1mark)
.....
.....
.....
8. State **two** circumstances that would lead a farmer to cull a high producing cow (1mark)
.....
.....
.....
9. List **four** factors that may inhibit milk let down in dairy cattle. (2marks)
.....
.....
.....
.....
10. Name the other tool used together with each of the following
(a) Canula (1mark)
.....
(b) Hypodermic needle
.....

11. Name **four** mineral deficiency livestock disorders (2marks)
-
-
-
-
12. Give **four** ways in which a farmer can restrain a bull on the farm (2marks)
-
-
-
-
13. Name **four** components of milk (2marks)
-
-
-
-
14. List **four** factors that affect the digestibility of a feed (2marks)
-
-
-
-
15. Give **two** symptoms of brucellosis in a cow (1mark)
-
-
-
16. Differentiate between **drift** and **pen lambing** (1mark)
-
-
-
17. State **four** abnormalities observed during egg candling (2marks)
-
-
-
-
18. State **four** characteristics of succulent roughages (2marks)
-
-
-
-
19. List **four** features on the animal which may predispose it to livestock disease (2marks)
-
-
-
-

SECTION B (20 MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

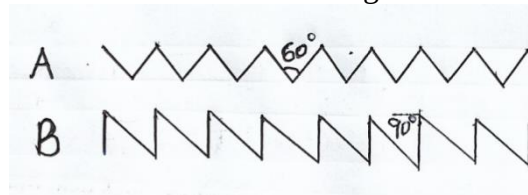
20. The diagram below illustrate the stages of life cycle of a tick. Study it and answer the questions that follow.



- (a) Describe the life cycle of the tick above (4marks)

b) Classify the tick on the basis of the life cycle. (1mark)

21. The diagram labelled A and B below show the teeth arrangements in workshop tools.



(a) Identify the tools represented by the teeth arrangement. A and B (2marks)

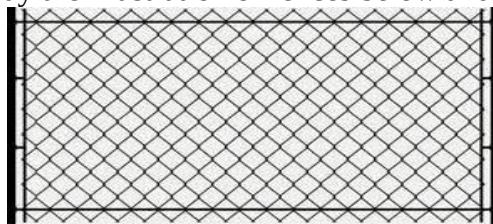
A -

B -

b) State **one** functional difference between tools represented by the teeth arrangement A and B. (1marks)

(c) Give **two** maintenance practices for the tools represented by the teeth arrangement shown above. (2marks)

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



X



Y

(a) Name the type of fences illustrated above (2mark)

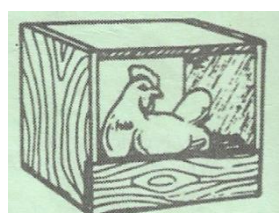
X -

Y -

b) Name the correct tool used in maintenance of the fence Y. (1mark)

c) State **two** advantages that fence Y may have over fence X (2mark)

23. The diagram below shows a method of incubation in poultry rearing.



- (a) Identify the method of incubation shown above. (1mark)

 b) State **four** advantages of the method of incubation identified in (a) above. (4marks)

SECTION C (40 MARKS)
ANSWER ANY TWO QUESTIONS IN THIS SECTION

- 24(a) Describe **ten** routine management practices carried out during calf rearing (10marks)
 (b) Explain **five** functions of water in livestock nutrition (5marks)
 (c) Outline any **five** advantages of a battery cage system (5marks) (25(a))
 Outline **ten** differences between a **spray race** and a **cattle dip** (10marks)
 (b) State **five** structural requirement for a good grain store (5marks)
 (c) Describe foot and mouth under the following sub – headings.
 (i) Casual organism (1mark)
 (ii) Symptoms of attack (4marks)
 26(a) Describe **ten** characteristics of a poor layer. (10marks)
 (b) State **five** differences between ruminants and non- ruminants digestive systems (5marks)
 (c) Describe **five** management practices carried out in a fish pond (5marks)

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Kenya Certificate of Secondary Education
KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name Admission number
Candidate's Signature.....Date.....

MOKASA TRIAL 1

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

Instructions to Candidates

- Write your **name, index number** in the spaces provided.
- This paper has three sections A, B and C.
- Answer **all** the questions in section **A** and **B** in the spaces provided.
- Answer any **two** questions in section **C**.

For Examiner's Use Only

Section	Question	Maximum Score	Candidates Score
A	1 – 19	30	
B	20 – 23	20	
C	24 – 26	40	
Total Score		90	

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SECTION A (30 MARKS)

Answer all questions in this section.

1. State four characteristics of exotic dairy breeds. (2mks)
2. Differentiate between the following terms; (2mks)
 - (a). Steer and a bullock. (b). Boar and Sow.
3. Name two tools used for dehorning. (1mk)
4. Name two hormones that control milk let- down. (1mk)
5. State four signs of farrowing in pigs. (2mks)
6. Outline four management practices carried out while rearing a heifer. (2mks)
7. State two effects caused by Keds in sheep. (1mk)
8. Outline four characteristics of an African wild bee. (2mks)
9. Name the breeding terms used to describe parturition in the following farm animals; (2mks)
 - (a) Sheep.
 - (b) Cattle.
 - (c) Rabbit.
 - (d) Goat.
10. Name four routes through which the vaccines can be administered. (2mks)
11. State two abnormalities observed during egg candling. (1mk)
12. State four advantages of natural incubation. (2mks)
13. Outline four disease causing micro-organism. (2mks)
14. State two factors that determine amount of water required by a dairy cow. (1mk)
15. Name two dual purpose sheep breeds. (1mk)
16. Name four parts found in a piggery unit. (2mks)
17. State four advantages of embryo transplant. (2mks)
18. Name four disorders caused by mineral imbalances in cattle. (2mks)
19. Outline two physiological body functions that indicate illness in livestock. (1mk)

SECTION B: (20 MARKS)

20. (a) A farmer was advised to prepare 180kg of calf ration containing 20% DCP. Using Pearson's square method, calculate the amount of maize containing 10% DCP and sunflower containing 40% DCP the farmer needs to use. Show your working. (4 mks)
- (b) State two factors considered when formulating a livestock ration. (2 mks)
21. Study the diagram below and answer the questions that follow.

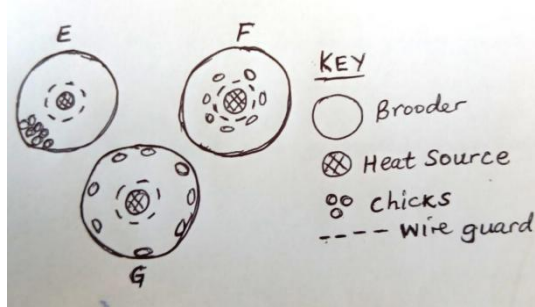


- (a) Name the type of identification illustrated above. (1 mk)
- (b) Give the identification number of the pig illustrated above. (1 mk)
- (c) Using a diagram, illustrate how animal number 83 can be identified using the above method. (2 mks)

(d) What is the use of metal rails in a farrowing pen?

(1 mk)

22. The diagrams below show the behaviour of chicks in a brooder in response to heat.



(a) Explain the behaviour of chicks in brooder;

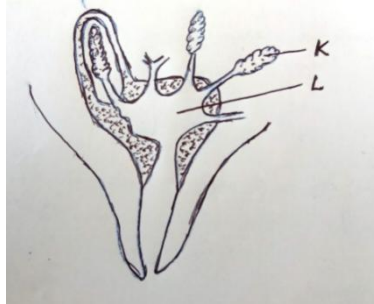
E - (1 mk)

F - (1 mk)

G - (1 mk)

(b) Explain why the brooder is rounded. (1 mk)

23. The diagram below shows the structure of the udder of a cow. Study it then answer the questions that follow.



(a) Identify parts labeled K and L. (2 mks)

K -

L -

(b) Name two hormones that control milk let-down in a dairy cow. (2 mks)

(c) Name one disease that attack part labeled L. (1 mk)

SECTION C: (40 MARKS)

Answer ONLY TWO questions from this section.

24. (a) Describe the physical characteristics of a good dairy cow for breeding. (10 mks)

(b) (i) State five functions of water in the body of livestock. (5 mks)

(ii) Explain the advantages of a four-stroke cycle engine. (5 mks)

25. (a) Explain five factors that affect milk composition in dairy cattle. (5 mks)

(b) Describe five factors that may lead to failure of a cow to conceive after service. (5mks)

(c) Explain the factors that a farmer should consider when selecting materials to construct a zero-grazing unit. (10 mks)

26. (a) Describe milk fever under the following sub-headings:

(i) Animal affected. (1 mk)

(ii) Cause of disease. (1 mk)

(iii) Symptoms. (5 mks)

(iv) Control measures. (3 mks)

(b) Outline the advantages of artificial insemination in cattle. (10 mks)

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KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name Admission number

Candidate's Signature.....Date.....

SUKELEMO JOINT EXAMINATION

413/2

AGRICULTURE

PAPER 2

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES

- (a) Write your name, index number, admission number and class in the spaces provided.
(b) Sign and write the date in the spaces provided above.
(c) Answer **all** the questions in section A and B.
(d) Answer any **two** questions in section C.
(e) Answers should be written in the spaces provided.
(f) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**

For Examiner's Use Only

	Question	Maximum Score	Candidate's Score
A	1-18	30	
B	19-21	20	
C		20	
		20	
Total score		90	

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SECTION A (30 MARKS)

Answer all questions in this section.

1. Name **two** methods of identification of livestock that do cause pain to the animal. (1 mark)

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2. Mention **two** ways in which the gizzard is adapted to its function. (1 mark)

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3. Name **four** main dairy breeds of goats reared in Kenya. (2 marks)

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4. Name **four** farm implements taken to obtain power from the power take off shaft. (PTO) of a tractor. (2 marks)

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5. State **three** reasons for castrating a billy goat. (1 ½ marks)

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6. State **four** desirable qualities of whole milk. (2 marks)

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7. Differentiate the following terms as used in livestock management;

Mothering ability and prolificacy (1 mark)

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Flushing and steaming up (1 mark)

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8. State the function of the following parts of a moldboard plough. (2 marks)

Shear

Landside

9. Give **one** main reason for withering lucerne (Medicagosative) before feeding to livestock. (1/2mark)

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10. Give **four** disadvantages of natural mating in a dairy cow. (1 ½ marks)

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11. State **four** qualities of a good honey. (1 ½ marks)

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12. Name **two** examples of the harvesting machines commonly used the farm. (1 mark)

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13. Give **two** disadvantages of using thatch as a roofing material. (1 mark)

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14. Give **three** reasons of spreading a polythene paper (PVC) on the slab of a permanent. (1 ½ marks)

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15. State **two** functions of a footbath in a plunge cattle dip. (1 mark)

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16. State **three** reasons for debeaking birds in poultry . (1 ½ marks)

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17. Give **four** reasons for raising rabbits hatch above the general level. (1 mark)

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18. State the use of a stir up pump. (½ mark)

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19. List **two** additives in livestock nutrition. (1 mark)

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20. State the function of the guard rails in a farrowing pen. (1 mark)

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21. State **two** reasons why air is undesirable in the process of making silage.

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22. Give **four** reasons for culling a breeding boar. (2 marks)

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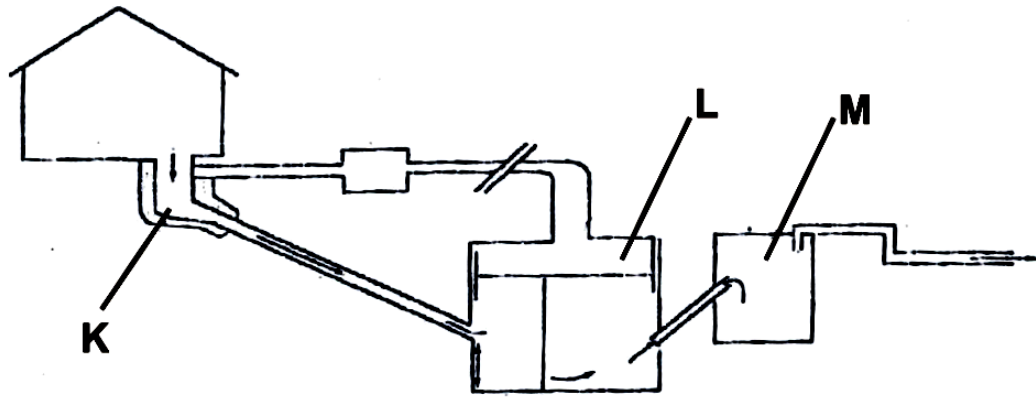
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SECTION B (20 MARKS)

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

23. Study the diagram of a biogas plant below and answer the questions that follow.



(a) Name the main component of biogas that is trapped in the part labeled L. (1 mark)

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(b) Give the name and use of the materials deposited in the part labeled M (1 mark)

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(c) State **three** uses of biogas on the farm (3 marks)

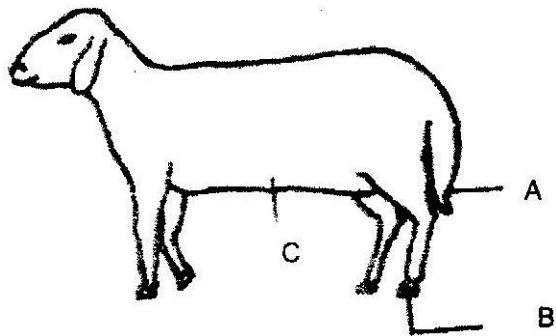
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24. The diagram below shows some management practices done in farm animals study it and answer the questions that follow.



(a) (i) What operation is usually carried out on the part labeled A during a sheep’s early stages of life? (1 mark)

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(ii) Why is it necessary to carry out the operation in (i) above? (1 mark)

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(iii) At what stage of sheep should the operation in (i) above be carried out? (1 mark)

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

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(b) (i) Which operation is usually carried out on part labeled B. (1 mark)

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(ii) What problem would occur if the operation in (bi)) above is not carried out? (1mark)

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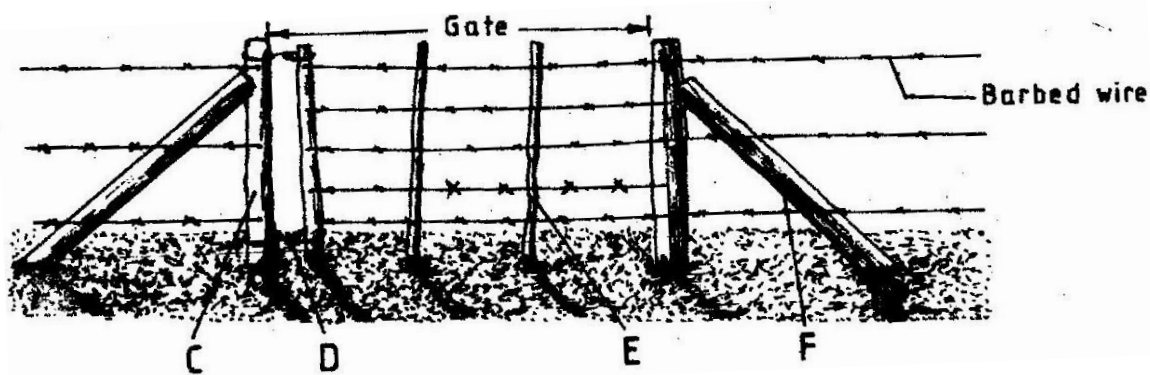
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(c) What practice is done on the ram in the part labeled C to control breeding . (1 mark)

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25. The diagram below shows a type of farm gate. Study the diagram and answer the questions that follow.



(a) Identify the type of gate shown (1 mark)

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(b) Name the parts labeled C, D and E. (3 marks)

C

D

E

(c) (i) State **one** function of the part labeled F. (1 mark)

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(ii) State **two** functions of the gate illustrated above.

(2 marks)

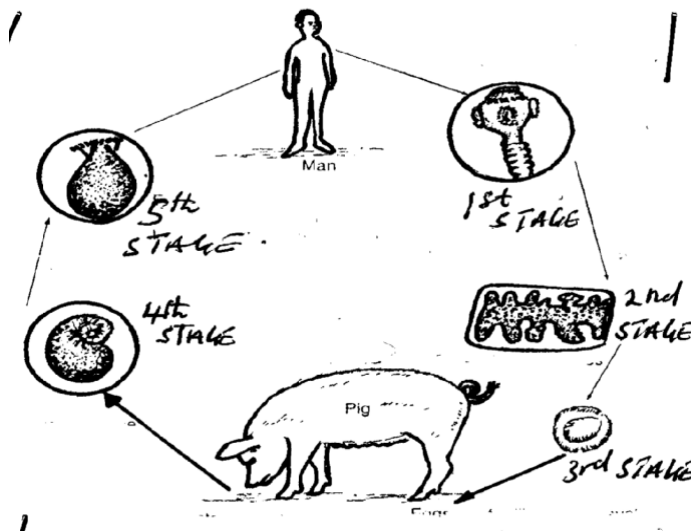
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26. The illustration below shows a life cycle of an internal parasite.



(a) Identify the parasite

($\frac{1}{2}$ mark)

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(b) Give **one** forms in which the parasite is found in livestock.

($\frac{1}{2}$ mark)

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(c) Name the intermediate host of the above parasite.

($\frac{1}{2}$ mark)

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(d) State **one** way through which the above parasite can be passed to man.

(1 mark)

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SECTION C (40 marks).

Answer two TWO questions from this section.

27. (a) Describe the procedure of wool shearing in sheep. (10marks)
- (b) Stating the practices explain ten appropriate methods of handling livestock (10 marks)
28. (a) Explain **five** factors that influence the choice of building materials. (5 marks)
- (b) Describe the Procedure of bull castration using burdizzor. (5 marks)
- (c) Describe ten management practices carried out on cattle during parturition. (10 marks)
29. Describe the rearing of one day old chicks from the day they arrive on the farm to the point of laying. (20 marks)