

# AGRICULTURE PP2 2024 KCSE MOCK

## TOP RANK KCSE PREDICTION MOCK 2024 SERIES

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NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**AGRICULTURE FORM 4**

**PAPER 2 (443/2)**

Time: 2 hours

**SERIES 1 2024 TOP RANK PREDICTION MOCK EXAM**

**INSTRUCTIONS TO CANDIDATES**

- i. This paper consists of THREE sections **A, B** and **C**
- ii. Answer **ALL** questions in **sections A** and **B** and **Any TWO** questions in **section C**
- iii. Answer to **ALL** questions **MUST** be written in the spaces provided.

**For Examiners' Use Only**

Section	Questions	Maximum Score	Candidate's Score
A	1 - 17	30	
B	18 - 21	20	
C	23 - 25	40	
TOTAL SCORE		<b>90</b>	

**SECTION A (30 MARKS)**

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

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1. Name **a tool** recommended for the following practices in the farm.

(i) Smoothening rough surface of wood. (½ mark)

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ii) Cutting threads on pipes. (½ mark)

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iii) Relieving a bloated animal of gases particularly ruminants. (½ mark)

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2. Study the table below and fill in missing names (3marks)

Description	Cattle	Pigs	Poultry
Young from birth /hatching to weaning			Chick
Young female before parturition /laying		Gilt	
Mature male for breeding	Bull		

3. Name **two** livestock diseases controlled through artificial insemination (A.I) (1mark)

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4. Name **two** dairy goat breeds reared in Kenya (1mark)

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5. Give **four** reason of feeding calves on colostrum. ( 2mark)

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6. State **four** effects of tsetse fly (*Glossina* spp) in livestock . (2mark)

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7. Why is raddling essential in sheep management. (1mark)

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8. State **four** factors considered when setting a pigsty in the farm. (2mark)

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9. Name four sources of power in the farm (2mks)

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10. State **four** predisposing factors to the occurrence of mastitis in dairy cattle. (2mark)

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11. Why are the following conditions maintained during artificial incubation of eggs in poultry production?

a. Proper ventilation. (1mark)

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b. Relative humidity maintained at 60%. (1mark)

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.....

12. Give **four** reason for keeping a herd of dairy cattle healthy. (2mark)

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13. Differentiate between the following terms as used in livestock production

a. Close breeding and line breeding. (1mark)

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b. Crutching and ringing. ( 1mark)

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14. State **four** reasons for maintaining farm tools and equipment. ( 2marks)

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15. Name **four** ways of restraining cattle during routine management. (2mark)

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16. State the factors that determine the amount of water an animal drinks. (2marks)

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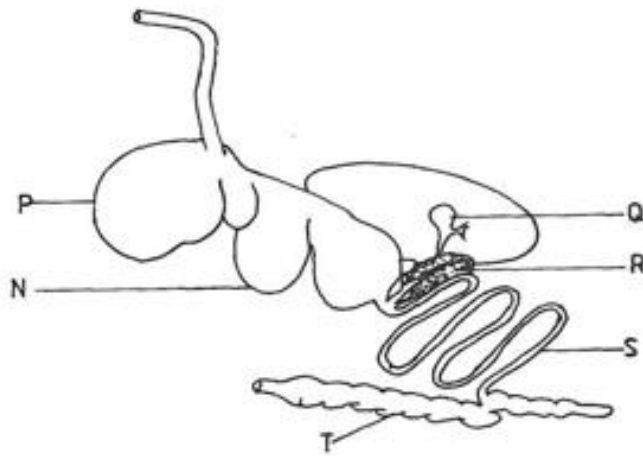
17. State **five** causes of stress in a flock of layers. (2½ marks)

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**SECTION B (20MARKS)**

**Answer all answers to this section in the spaces provided.**

18. The diagram below shows part of the digestive system of livestock



a. Name **one** livestock with the above digestive system ( 1mark)

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b. Name parts labelled P and N (2marks)

P

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 .....

N

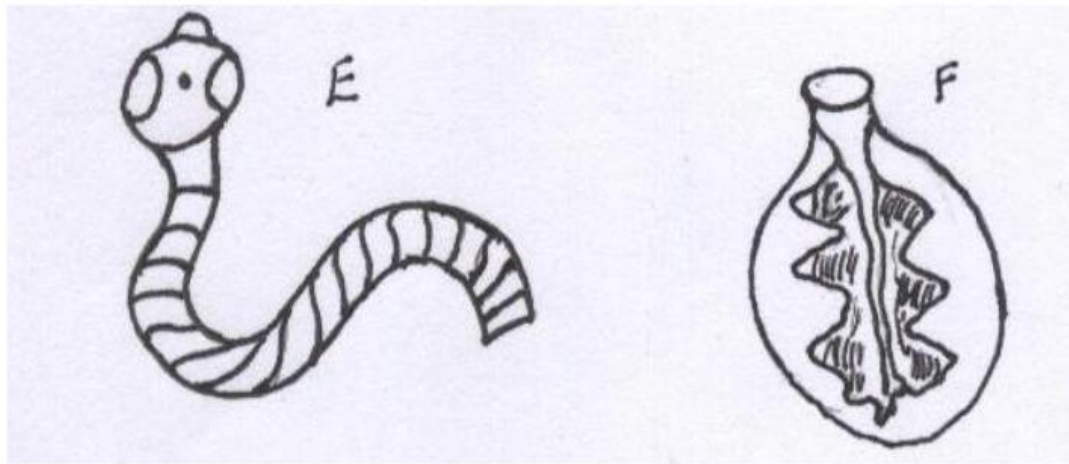
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c. State **two** functions of part labelled P (2marks)

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19. Below shows livestock parasites study them and answer questions that follow

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a) Identify parasite labeled E and F. (1mark)

E

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F...

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b) Name the organ in which each parasite is commonly found. (1mark)

E

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 .....

F

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c) Name the intermediate host of the parasite labeled E. (1mark)

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d) State two control measures of the parasite labeled F in livestock production. (2mark)

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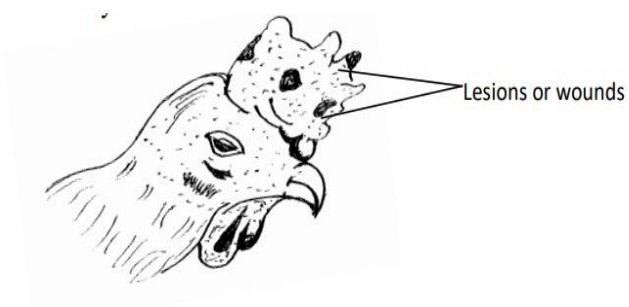
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20. The diagram below shows a poultry disease. Study it and answer the question that follow



a) Identify the disease. ( ½ mark)

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b) State the causative agent of the above. ( ½ mark)

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c) Apart from wounds or lesions or state any other two symptoms of the above disease (2marks)

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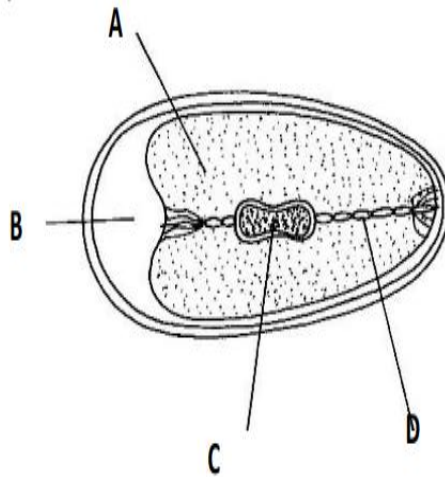
d) State two control measures of the above (2marks)

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



a) Name the parts labelled A, B, C, and D.

A..... (½ mark)

B..... (½ mark)

C..... (½ mark)

D..... (½ mark)

b) State two qualities that should be considered when selecting eggs for incubation (2mark)

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c) What is the function of the part labelled C in a fertilized egg (1mark)

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### **SECTION C (40 MARKS)**

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

22. a) Describe the process of milk secretion (5marks)

b) outline the advantages of battery cage system of rearing poultry ( 8marks)

c) Describe various management carried out in a fish pond to ensure maximum harvest of fish (7marks)

23. a) Describe general methods of controlling livestock diseases 10marks)

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b) Give eight differences between a petrol and diesel engine (10marks)

24. a) Describe the process of egg formation in the reproductive system of a hen ( 12marks)

b) Describe the ideal characteristics of an ideal calf pen ( 8marks)

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NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**AGRICULTURE FORM 4**

**PAPER 2 (443/2)**

Time: 2 hours

**SERIES 2 2024 TOP RANK PREDICTION MOCK EXAM**

**Instructions**

- ✓ Write down your name and index number in the spaces provided above
- ✓ Sign and write the date of examination in the spaces provided above
- ✓ This paper consists of three sections; **A**, **B** and **C**
- ✓ Answer ALL the questions in section **A** and **B**
- ✓ Answer any two questions in section **C**
- ✓ Candidates should answer all the questions in **English**

**For examiner's use only**

Section	Question	Maximum score	Candidate's score
A	1-16	30	
B	17-20	20	
C	21	20	
	22	20	
	23	20	
TOTAL		90	

**SECTION A (30 MARKS)**

***Answer all questions in the spaces provided***

1. Give **four** major features of exotic beef cattle breeds

(2 Marks)

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2. State **four** factors considered when selecting female rabbits for breeding

(2 Marks)

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3. State **four** ways of controlling tsetse flies.

(2 Marks)

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4. Give **four** ways of stimulating milk let-down in a dairy cow.

(2 Marks)

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5. State **four** disadvantages of natural mating as a method of breeding in dairy cattle management. (2 Marks)

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6. Name **two** types of rabbit house. (1 Mark)

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7. State **four** factors that would determine the amount of concentrate fed to dairy cattle.(2 Marks)

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8. State **four** maintenance practices of a calf pen. (2 Marks)

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9. Name any **four** farm implements that are operated through PTO shaft (2 Marks)

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10. (a)What is dry cow therapy. (½ Marks)

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(b)Give **three** qualities of colostrum that makes it suitable for newborn calves. (1½ Marks)

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11. State **four** disadvantages of a tractor as a source of power. (2 Marks)

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12. List **four** types of vaccine used in livestock (2 Marks)

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13. State **four** factors to consider when siting a fish pond. (2 Marks)

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14. State **four** conditions that would encourage hens to eat eggs in poultry production (2 Marks)

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15. State **four** methods of dehorning (2 Marks)

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16. What is the causal organism for the following diseases

(a) Anthrax (½ Mark)



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. (b)Bang's disease in pigs.

(½ Mark)

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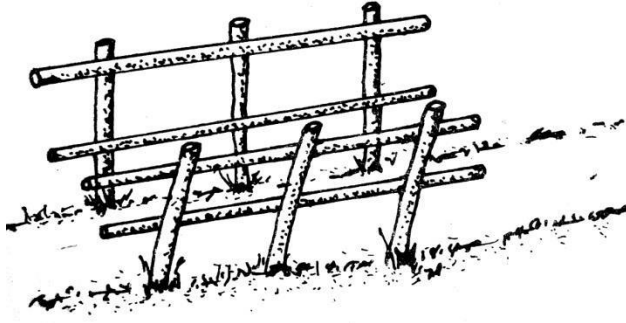
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## **SECTION B (20 Marks)**

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

17. The diagram below illustrates a livestock handling structure



a) Identify the structure

(1 Mark)

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. b) Name any **four** practices that a farmer can carry out in the structure

(4 Marks)

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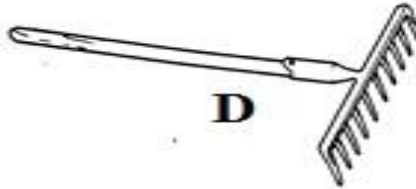
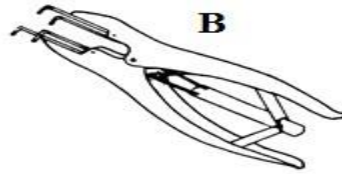
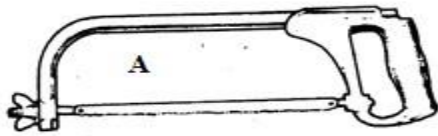
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18. Below are illustrations of farm tools labelled A, B, C and D



a) Identify the tool/ equipment labeled A and B

(2 Marks)

A.....

B.....

b) State **one** appropriate use of the tool labeled D.

(1 Mark)

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. c) Explain **two** maintenance practices for the tool labelled C.

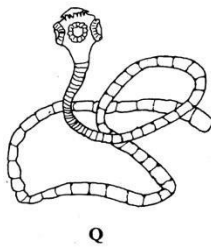
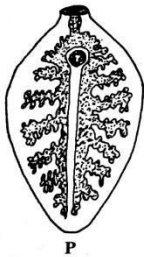
(2 Marks)

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19. Given below are illustrations of two adult internal parasites of sheep labelled P and Q



a) Identify the parasites

(2 Marks)

P.....

Q.....

b) In which organs in livestock are parasite P and Q found?

(2 Marks)

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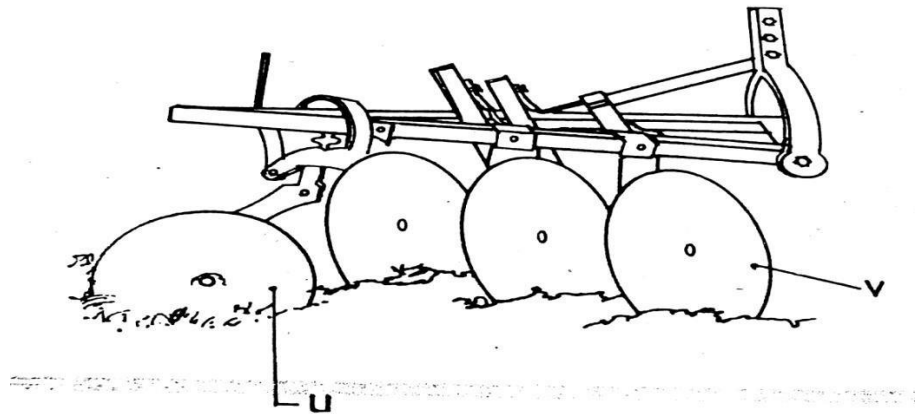
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. c) How should sheep suffering from parasite Q infestation be treated (1 Mark)

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20. The diagram below represents an implement

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a) Identify the implement (1 Mark)

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b) Name the parts labelled U and V and give one function of each (2 Marks)

U.....

V.....

c) State four maintenance practices carried out on the implement shown in the diagram (2 Marks)

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### **SECTION C (40 MARKS)**

***Answer any two questions from this section in the spaces provided after question 23.***

21 a).Describe how each stroke in a four stroke cycle petrol engine operates. (8 Marks)

b) State six signs that are likely to be observed when a cow is on heat (6 Marks)

c) Describe six factors considered when choosing the type of poultry rearing system(6 Marks)

22 a) Discuss Foot and Mouth disease under the following headings:

- (i) Casual organisms. (1 Mark)
- (ii) Livestock species attacked. (2 Marks)
- (iii) Symptoms of attack. (4 Marks)

b) State the uses of fences in farms. (8Marks)c)

Describe digestion of grass in small intestines of ruminant animals (5 Marks)

23 a) Describe the factors considered when culling livestock. (5 Marks)

b) Describe five factors that affect milk composition in dairy farming. (5 Marks)

c) Explain measures used to control livestock diseases. (10 Marks)

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**AGRICULTURE FORM 4**

**PAPER 2 (443/2)**

Time: 2 hours

**SERIES 3 2024 TOP RANK PREDICTION MOCK EXAM**

**Kenya Certificate of Secondary Education**

**INSTRUCTIONS TO CANDIDATES:**

- Write your name and admission number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of **THREE** Sections **A**, **B** and **C**.
- Answer **all** questions in Section **A** and **B**.
- Answer any **two** questions in Section **C** in the spaces provided.

**FOR EXAMINER'S USE ONLY**

FOR EXAMINER'S USE ONLY			
Section	Question	Maximum Score	Candidate's Score
A	1 - 15	30	
B	16 - 20	20	
C	21 - 23	20	
		20	
Total Score		90	

**SECTION A – (30 Marks)**



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

1. a) Differentiate between a parasite and a pathogen. (1 mk)

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b) Name **two** categories of parasite in livestock. (1 mk)

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2. State **three** factors that stimulate milk let-down in dairy cows. (3 mks)

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3. Name **two** conditions which pre-dispose foot-rot in sheep. (2 mrks)

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4. Name **four** causes of stress in layers. (2 mks)

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5. Give **two** factors considered when siting a calf pen. (2 mks)

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6. State **four** factors considered when selecting an implement for primary cultivation. (2 mks)

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7. State **four** functions of vitamin in livestock. (2 mks)

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8. Give **two** factors that may lead to conception failure after service in heifers. (2 mks)

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9. Give **two** uses of litter in a poultry house. (2 mks)

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10. State **two** functions of ventilation in a pig house. (2 mks)

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11. State **four** reasons for maintaining livestock healthy. (2 mks)

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12. State **three** harmful effects of ticks on livestock. (1½ mks)

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13. Apart from sharpening blades and lubricating, State **three** other maintenance practices that should be carried out on a rotary mower. (1½ mks)

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14. Give **two** adjustments that should be carried out for proper operations of a disc harrow. (2 mks)

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15. Give **four** uses of harrow on the farm. (2 mks)

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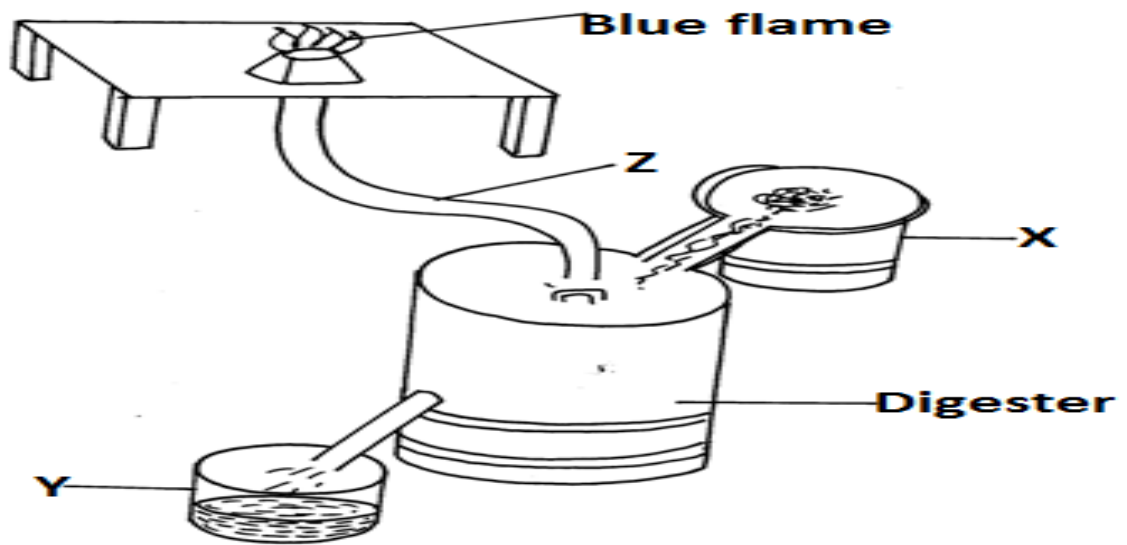
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**SECTION B – (20 Marks)**

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

16. The diagram below is a biogas digester.



- a) Name the parts labeled X and Z.  
(2mks)

X

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.....

Z

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- b) Name **two** inputs periodically channeled through X. (2mks)

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- c) Name the use to which material Y is put. (1mk)

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- d) Name **two** uses of biogas on the farm. (1mk)

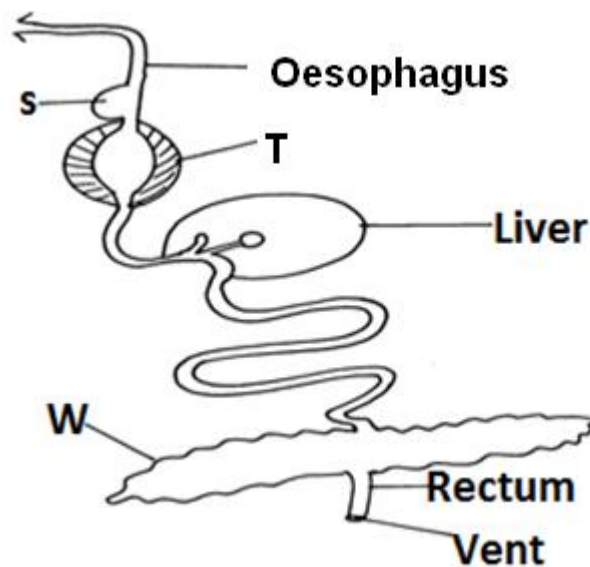
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17. Below is the diagram of a digestive system, use it to answer the question that follows.



- i) Which farm animal has a digestive system similar to the above system. (1mk)

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- ii) Name the parts labeled S, T and W. (3mks)

S.....

T.....

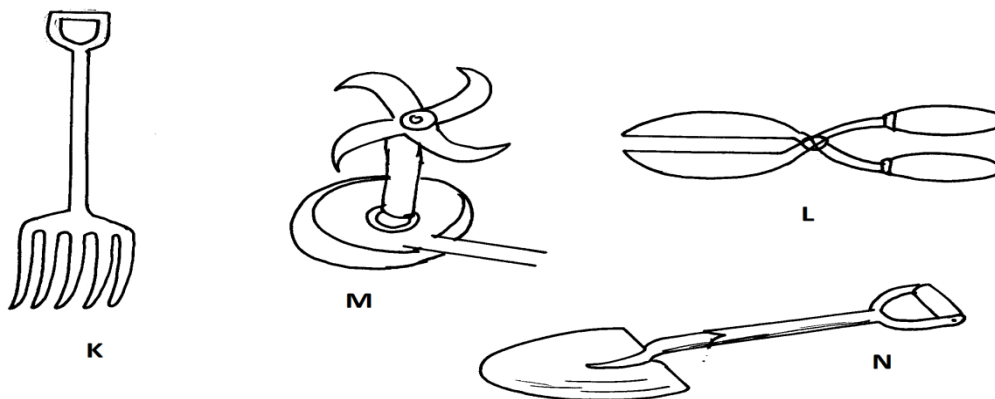
W.....

- iii) Explain the work of the parts S and T. (2mks)

S.....

T.....

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



a) Identify the tools K, L, M and N. (2mks)

K.....

L.....

M.....

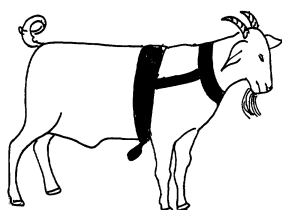
N.....

b) Give the use of K and L. (2mks)

K.....

L.....

19. The diagram below illustrates a breeding management practice.



a) Identify the practice. (1mk)

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b) Outline **three** reasons for carrying out this practice. (3mks)

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20. Name three internal parasites in livestock. (3mks)

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**SECTION C – (40 Marks)**

*Answer any **two** questions from this section in the spaces provided after question 21.*

21. a) Give **four** differences between petrol and diesel engine. (8mks)

b) Give **four** functions of a cooling system in an engine. (4mks)

c) State **eight** daily maintenance practices carried out on a tractor. (8mks)

22. a) Outline the signs of farrowing in pigs. (5mks)

b) Describe the management practices carried out on piglets immediately after birth .(5mks)

c) Describe the management practices carried out on a grower from 9 weeks old to the point of laying (10mks)

23. a) Name and describe the features of an ideal calf pen. (8mks)

b) Discuss pneumonia in calves under the following sub-heading.

i) Predisposing factors. (3mks)

ii) Symptoms. (5mks)

iii) Control measures. (3mks)

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

## AGRICULTURE FORM 4

### PAPER 2 (443/2)

Time: 2 hours

### SERIES 4 2024 TOP RANK PREDICTION MOCK EXAM

#### INSTRUCTIONS TO CANDIDATES

1. Write your name, admission number and class
2. This paper contains **three** sections
3. Answer all question in section **A** and **B**
4. In section **C** answer any **two** questions
5. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing
6. This paper has 9 printed pages
7. Candidates must answer all the questions in English

#### For examiner's use only

Section	Questions	Maximum score	Candidate score
<b>A</b>	<b>1 -17</b>	<b>30</b>	
<b>B</b>	<b>18 -21</b>	<b>20</b>	
<b>C</b>		<b>20</b>	
		<b>20</b>	
<b>Total score</b>		<b>90</b>	



1. Other than sleeping give **two** other uses of the sleeping yard of a rabbit hutch. [1 mark]

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2. State **four** characteristics of roughage. [2 marks]

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3. State **four** categories of livestock diseases. [2 marks]

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4. State **four** conditions that may reduce the quality of eggs for hatching. [2 marks]

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5. Explain **two** maintenance practices carried out on a cross cut saw. [2 marks]

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6. State **four** limitations of using solar power on the farm. [2 marks]

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7. Name **four** dairy breeds of cattle. [2 marks]

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8. State the origin of each of the following dual purpose cattle breeds. [1 mark]

a) Sahiwa

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b) Red poll

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9. State **four** symptoms of rinder pest disease in cattle. [2 marks]

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10. State **four** reasons for castrating piglets. [2 marks]

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11. Name **two** practices carried out in a crush. [1 mark]

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12. Give **two** effects of internal parasites that are harmful to livestock. [1 mark]

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13. Give **four** reasons why farmers steam up dairy cattle. [2 marks]

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14. Outline **four** ways of maintaining good health in livestock. [2 marks]

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15. Name **four** methods of dehorning. [2 marks]

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16. Distinguish between cropping and harvesting in fish. [2 marks]

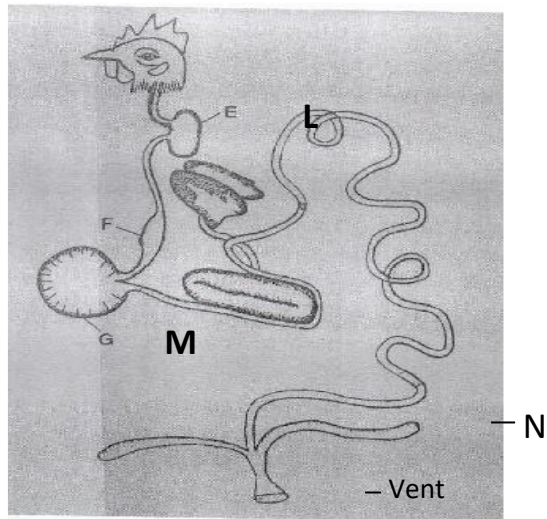
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17. Give **four** importances of keeping livestock healthy. [2 marks]

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**SECTION B [20 MARKS] ANSWER ALL QUESTION**

18. The diagram below illustrates the digestive system of a farm animal.



a) Name the farm animal with this digestive system. [1 mark]

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b) Name the part labeled.

L:

..... [1 mark]

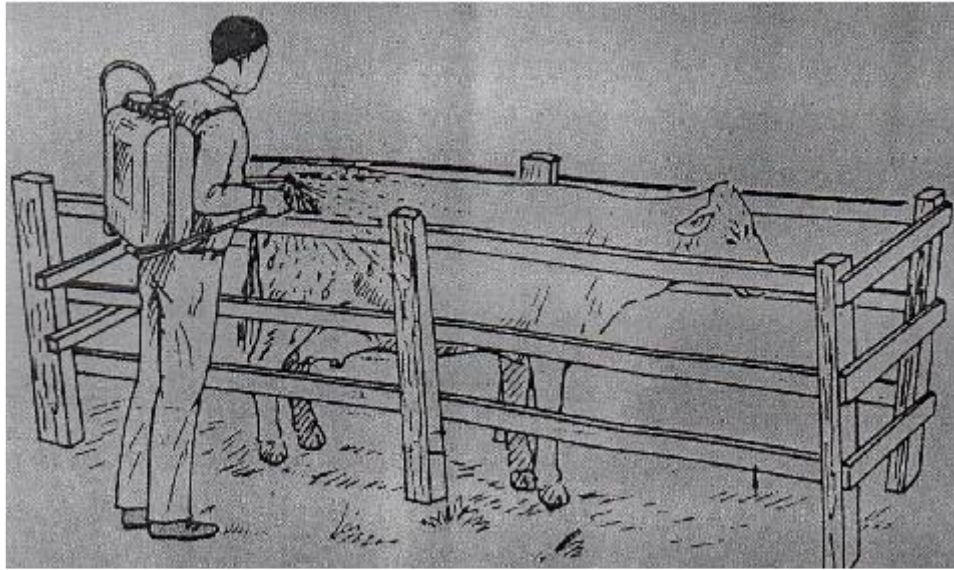
M:

.....[1 mark]

c) State **two** functions of the part labeled N. [2 marks]

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19. The illustration below shows a farm practice used in the control of external parasites.



a) Name the method of parasite control shown in the illustration. [1 mark]

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b) Name **two** ectoparasites that can be controlled using this method. [1 mark]

i)

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ii)

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c)i) Name the equipment being used to carry out the practice illustrated above. [1 mark]

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ii) State **two** factors that will lead to maximum effectiveness when using the practice above to control ectoparasites. [2 marks]

i).....

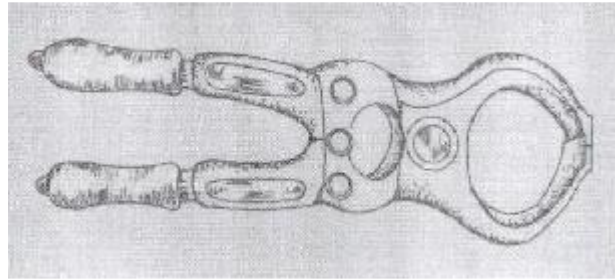
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ii).....

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20. Below is a diagram of a tool used in livestock rearing.



a) Identify the tool. [1 mark]

.....

.....

b) State **two** uses of the tool. [2 marks]

i)

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ii)

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.....

c) Give **two** reasons why farmers prefer using the tool. [2 marks]

i).

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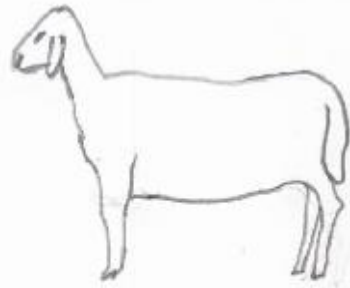
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ii).

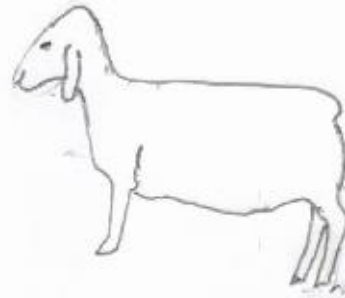
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21. The illustration below shows a practice carried out in sheep.



Before practice



After practice

- a) Identify the practice. [1 mark]

.....  
 .....

- b) State **two** reasons for carrying out the practice. [2 marks]

i)

.....  
 .....

ii)

.....  
 .....

- c) At what age should the practice named in (a) above carried out? [1 mark]

.....  
 .....

- d) Give **one** reason why a hot iron is recommended when carrying out the practice. 1 mark

i)

.....  
 .....

[1 mark]

### **SECTION C [40 MARKS] ANSWER ONLY TWO QUESTIONS**

- 22.a) Explain **seven** structural requirements for a grain store. [7 marks]

- b) State the factors considered when selecting livestock for breeding. [8 marks]

- c) Outline the procedure of handling a heifer when administering a liquid deworming drug to control internal parasites. [5 marks]

- 23.a) Describe **ten** characteristics of a poor layer. [10 marks]

- b) Describe short term tractor servicing. [5 marks]

- c) Explain **five** maintenance practices of a wheel barrow. [5 marks]

- 24.a) Describe how a farmer will ensure clean milk production in a dairy farm. [10 marks]

- b) Outline **four** observations on behaviour of chicks that indicate that temperature in a brooder is too high. [4 marks]
- c) Explain **six** advantages of kenya top bar hive ( K.T.B.H ) in bee keeping. [6 marks]



NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**AGRICULTURE FORM 4**

**PAPER 2 (443/2)**

Time: 2 hours

**SERIES 5 2024 TOP RANK PREDICTION MOCK EXAM**

**INSTRUCTIONS TO CANDIDATES**

8. Write your name, admission number and class
9. This paper contains three sections and 8 pages
10. Answer all questions in section A and B
11. In section C answer any two questions
12. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing
13. Candidates must answer all the questions in English

**For examiner's use only**

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 (2maks)

.....

.....

4. What do you understand by the term **raddling** as used in sheep management. (1mark)

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5. List **four** conditions that an animal structure should meet in order to help in controlling livestock diseases. (2marks)

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6. List **four** physical characteristics of a dairy cow. (2marks)

.....

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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 (1mark)

(a) Canula

.....

.....

(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)

.....

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.....

13. Name **four** components of milk (2marks)

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14. List **four** factors that affect the digestibility of a feed (2marks)

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15. Give **two** symptoms of brucellosis in a cow (1mark)

.....

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.....

16. Differentiate between **drift** and **pen lambing** (1mark)

.....

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17. State **four** abnormalities observed during egg candling (2marks)

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18. State **four** characteristics of succulent roughages (2marks)

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19. List **four** features on the animal which may predispose it to livestock disease (2marks)

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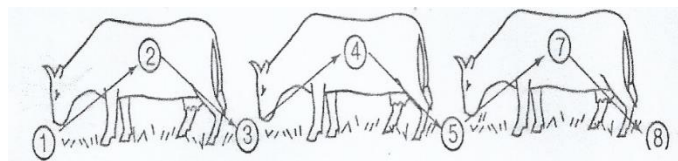
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**SECTION B (20 MARKS)**

**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)

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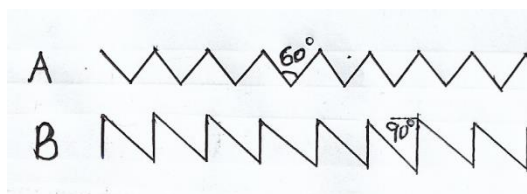
b) Classify the tick on the basis of the life cycle.

(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)

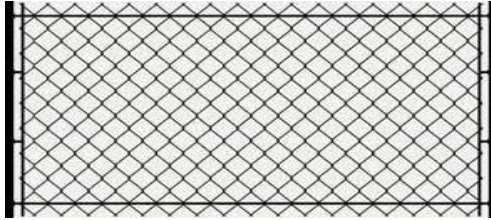
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(c) Give **two** maintenance practices for the tools represented by the teeth arrangement shown above (2marks)

.....  
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 .....  
 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-

.....  
 .....

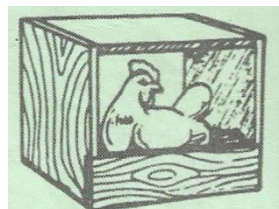
b) Name the correct tool used in maintenance of the fence Y. (1mark)

.....  
 .....

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)

.....

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**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)

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

## AGRICULTURE FORM 4

### PAPER 2 (443/2)

Time: 2 hours

## SERIES 6 2024 TOP RANK PREDICTION MOCK EXAM

### INSTRUCTIONS TO CANDIDATES

- Write your name,, admission number and school in the spaces provided.
- Answer **all** the questions in section A and B.
- Answer any **two** questions in section C.
- Answers should be written in the spaces provided.
- This paper consists of 8 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

### FOR EXAMINERS USE ONLY

SECTIONS	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-17	30	
B	18-21	20	
C		20	
		20	
TOTAL		90	

### SECTION A (30 MARKS)

#### Answer ALL the questions in the spaces provided

1. Name four dairy cattle breeds reared in Kenya. (2mks)

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.....  
2. Give four reasons for castrating male goats. (2mks)

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

3. Give two parasites of cattle which are also disease vectors (1mk)

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

4. List two possible causes of overheating in a tractor engine (1mk)

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

5. Mention the use of the following tools. (2mks)

i) Dibber

.....  
.....

ii) Spoke shave

.....  
.....

iii) Tinsnips...

.....  
.....

iv) Burdizzo

.....  
.....

6. State the importance of the following in livestock nutrition:

i) Water (1mk)

.....  
.....  
ii) Vitamin A (1mk)

.....  
.....  
7. State four management practices that should be carried on a fish pond in order to obtain  
Maximum fish production. (2mks)

.....  
.....  
.....  
.....  
.....  
8.a) State two reasons for washing the udder of a cow with warm water before milking. (1mk)

.....  
.....  
b) Name the hormone that causes each of the following in dairy cows:.

i) Milk let down. ....(1mk)

ii) lactogenesis .....(1mk)

9. Differentiate between ‘breed’ of animal and ‘type’ of animal. (2mks)

.....  
.....  
.....  
10. Name two livestock diseases that are spread through natural mating. (1mk)

.....  
.....  
11. Name the compartment of the ruminant stomach where microbial digestion takes place.(1mk)

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.....  
.....  
12. List four precautions that should be taken when using workshop tools and equipment. (2mks)

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13. State four methods of increasing the depth of penetration of a disc harrow. (2mks)

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.....  
14. List four factors considered when formulating livestock ration. (2mks)

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.....  
15. State four conditions that necessitate the handling of farm animals (2mks)

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.....  
.....  
.....  
.....  
16. State four abnormalities of eggs that can be detected during egg candling. (2mks)

.....

.....

17. List two events which occur during induction stroke in a four stroke engine. (1mk)

.....

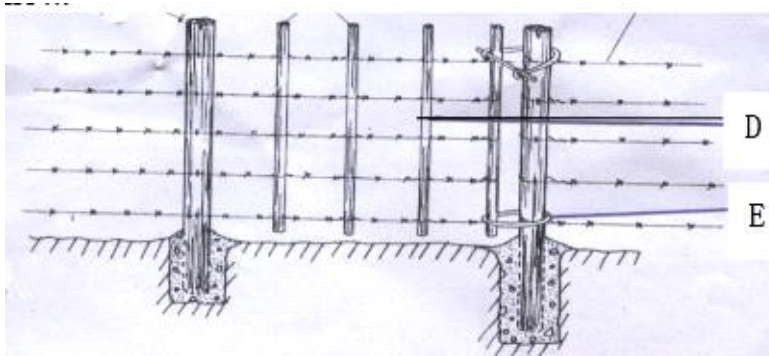
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**SECTION B (20 MARKS)**

*Answer ALL the questions in the spaces provided.*

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



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

.....

.....

.....

b) Name parts labeled D and E. (2 marks)

D

.....

.....

E

.....

.....

c) i) State two functions of the part labelled E. (2marks)

.....

.....

.....

ii) State two functions of the gate illustrated above. (2 marks)

.....

.....

.....

19. The diagram below illustrates a calf rearing practice.



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

.....

.....

.....

b) i) Describe the procedure followed in the feeding practice named in (a) above. (3 marks)

.....

.....

.....

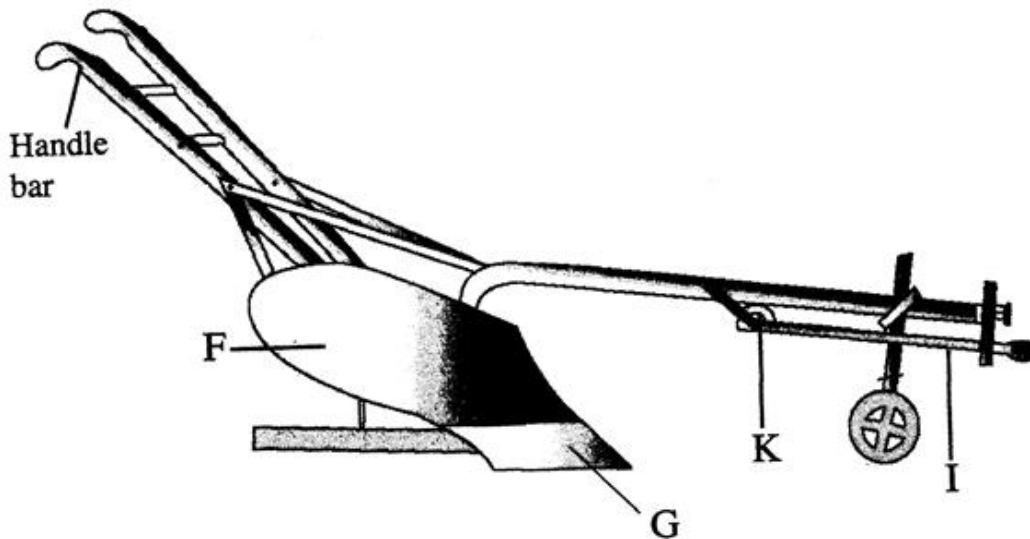
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ii) Give two precautions taken while using the rearing practice stated in (a) above. (2 marks)

.....

.....

.....  
 .....  
 20. Study the diagram below of an ox-plough and use it to answer the questions that follow.



a) Give the functions of parts G and F

G..... (1mark)

F..... (1mark)

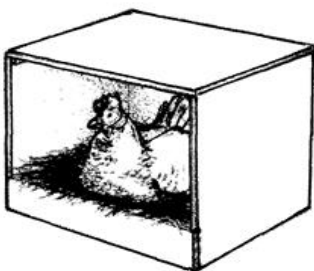
b) Name the parts labelled K and I

K..... (1mark)

I..... (1mark)

c) Mark on the diagram using letters M and N the two parts used to adjust the depth of ploughing. (1mark)

21. The diagram below shows a hen sitting on eggs. Use it to answer the questions that follow.



a) Name the method of incubation illustrated above. (1mark)

.....  
.....

b) Give **two** signs that may show that the hen is ready to sit on the eggs. (1marks)

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

### **SECTION C (20 MARKS)**

*Answer ANY TWO questions in the spaces provided after question.*

22. a) Describe brucellosis under the following subheadings:

i) Causal organism (1mark)

ii) Transmission (1mark)

iii) Symptoms (4mks)

iv) Control measures (4mks)

b) State the function of any five parts of a zero grazing unit in dairy farming. (5mks)

c) Explain **five** factors that should be considered when choosing tools and equipment to use in the farm.

(5mks)

23 a) Outline the control measures of mastitis. (5marks)

b) Describe the marketing of eggs. (10marks)

c) Outline the general characteristics of chinchilla breed of rabbits. (5marks)

24. a) Give the differences between a petrol and a diesel engine (10mks)

b) Describe the daily maintenance of a tractor (10mks)

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

## AGRICULTURE FORM 4

### PAPER 2 (443/2)

Time: 2 hours

## SERIES 7 2024 TOP RANK PREDICTION MOCK EXAM

#### Instructions to Candidates:

- a) Write your name and index number in spaces provided above
- b) This paper consists of **THREE** sections: A, B and C
- c) Answer all questions in Section A and B.
- d) All answers should be written in the spaces provided on this question paper.
- e) Candidates should answer the questions in English.
- f) 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	

#### 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 [1 mark]

(i) .....

(ii) .....

14. Give the terms used to describe the following

(i) Mature male pig .....(1 mark)

(ii) Sterilised male birds (1/2 mark)

.....

(iii) Mature female goat (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 (1/2 marks)

(i) .....

19. Give the functional difference between a ripsaw and atenon saw. (1 mark)

(i) .....

.....

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

.....

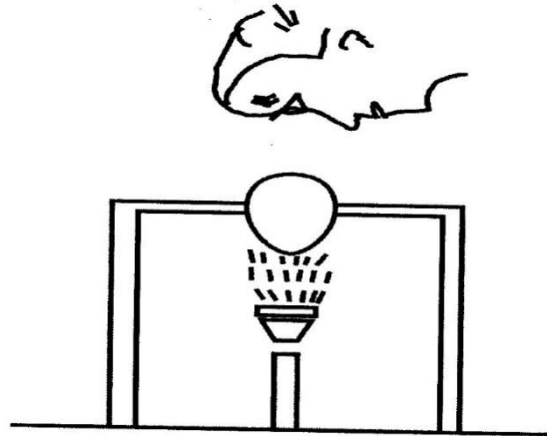
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## **SECTION B [20 MARKS]**

**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) .....

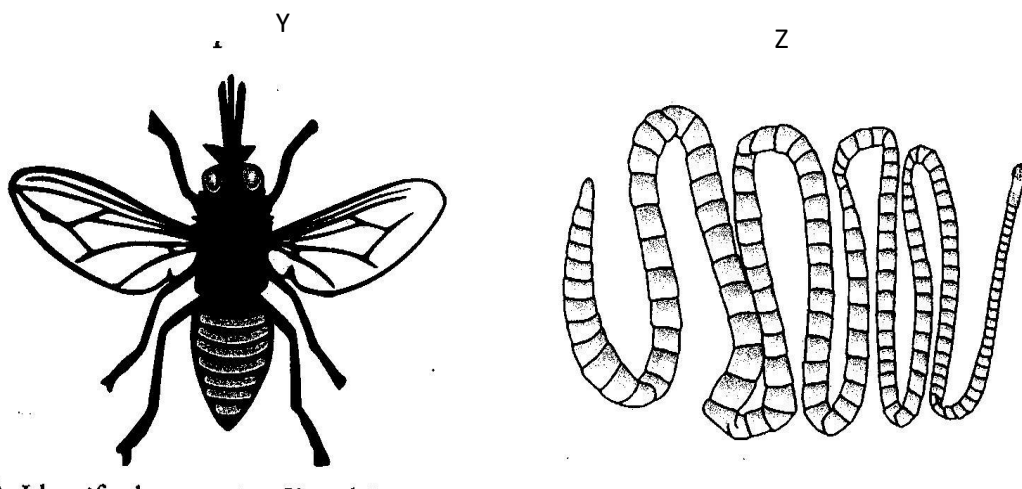
(ii) .....

(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?

(1 mark)

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

(1 mark)

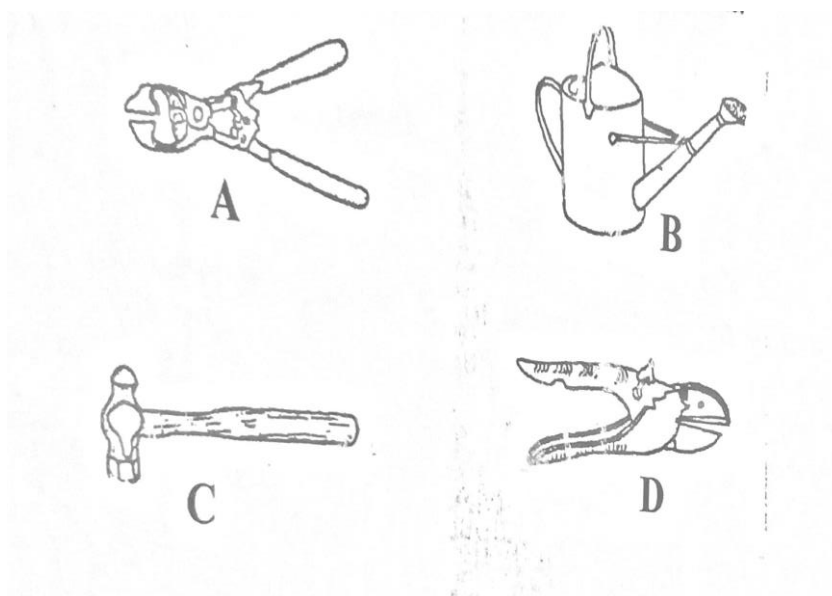
.....  
.....  
(d) Give a control measure of each parasite Y and Z

(2 marks)

23. 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. (1 mark)

.....  
.....  
**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** function of water in animal's body. (10 marks)



NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

## AGRICULTURE FORM 4

### PAPER 2 (443/2)

Time: 2 hours

### SERIES 8 2024 TOP RANK PREDICTION MOCK EXAM

#### INSTRUCTIONS TO CANDIDATES

1. Write your **name** in the spaces provided above.
2. This paper consists of three sections **A,B** and **C**.
3. Answer **ALL** the questions in sections A and B and any two from section C.

#### FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM MARKS	CANDIDATE'S SCORE
A	1 – 19	30	
B	20 – 22	20	
C		20	
		20	
TOTAL SCORE		90	

#### SECTION A (30marks)

Answer all questions in this section in the spaces provided.

1. (a) Name the hormone that brings about milk letdown (1mk)

.....  
.....

- (b) Differentiate between pasteurization and homogenisation (1mk)

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

.....

.....

2. State four candling qualities of eggs for incubation (2mks)

.....

.....

.....

.....

3. Give two reasons for maintaining farm tools (1mk)

.....

.....

.....

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

.....

.....

.....

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

.....

.....

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

.....

.....

.....

.....

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

(a) Stock and die and pipe cutter

.....

.....

.....

.....

(b) Ball pein hammer and claw hammer

.....

.....

.....

7. State four features of an ideal calf pen (2mks)  
.....  
.....  
.....  
.....
8. State four signs of heat in does (2mks)  
.....  
.....  
.....  
.....  
.....
9. State three methods of restraining cattle (1½ mk)  
.....  
.....  
.....  
.....
10. List four structural requirements of a grain store (2mks)  
.....  
.....  
.....  
.....  
.....
11. Name two types of mowers a farmer can use in the farm (1mk)  
.....  
.....  
.....
12. Name the breeds of livestock which: (1mk)
- (a) Produces the highest butterfat content  
.....  
.....
- (b) Is known for production of good Mohair  
.....  
.....
13. State four factors that influence digestibility (2mks)

.....

.....

.....

.....

.....

14. Name any two renewable sources of power in the farm (1mk)

.....

.....

.....

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

.....

.....

.....

.....

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

.....

.....

.....

17. State two conditions which would make it necessary to feed bees (1mk)

.....

.....

.....

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

.....

.....

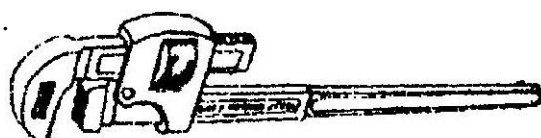
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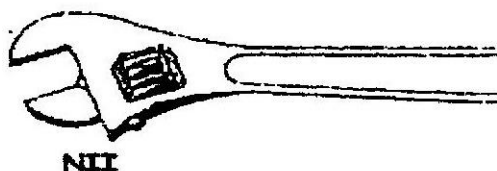
## **SECTION B (20MKS)**

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

19. The diagram labeled N I, N II, N III below represent some tools used in farms.



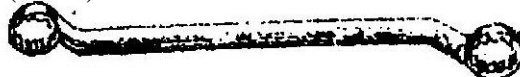
N I-----



N II

- (i) Identify the tools shown above:

(2mks)



N III

N I

N II

- ii) What functional advantage does the tool labeled N II have over the tool labeled N III? (1mk)

.....

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.....

.....

- iii) What is the function of tool labeled N I (1mk)

.....

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.....

- iv) Give the maintenance practice of N I (1mk)

.....

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.....

.....

20. The diagram below illustrates parasites which transmit diseases in livestock. Study them carefully and answer the questions below



- (a) Identify the specimen K and L

K..... ( 1 mk)

L..... ( 1 mk)

- (b) In each case name one disease transmitted by the parasite K and L in cattle( 2 mk)

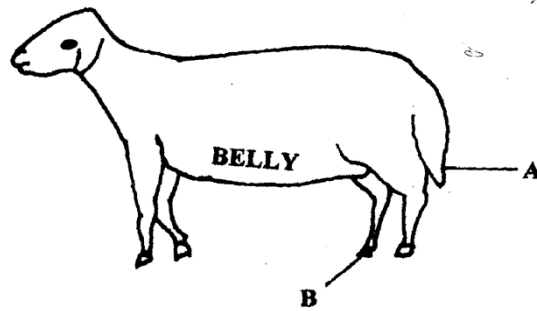
K  
.....  
.....

L  
.....  
.....

- (c) Name the causative organism of the disease transmitted by K ( 1 mk)

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

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



i) What operation is usually carried out on the part labeled A? ( 1 mk)

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i) Give two reasons for carrying out the operation stated in a(i) above? (2 mk)

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ii) Which routine is usually carried out on the part labeled B. (1 mark)

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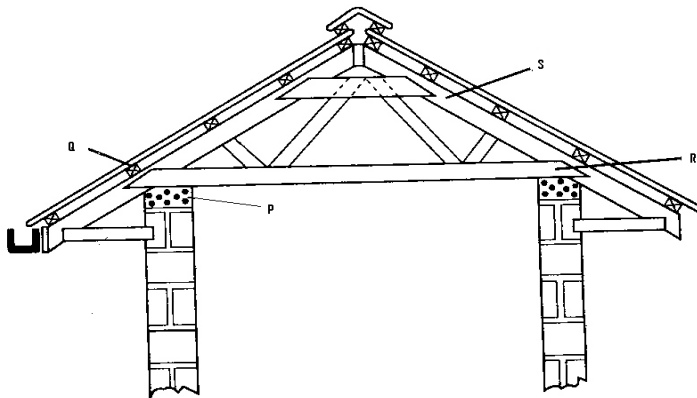
iii) Name the disease that is likely to affect the sheep if the operation stated in a(iii) above is not carried out. (1 mk)

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22 The following diagram shows parts of a roof. Study it carefully and answer the questions that follow.



- (a) Name the parts labeled **P, Q, R** and **S** (2mks)
- P.....
- Q.....
- R.....
- S.....
- (b) State the functions of **P** and **Q** (2mks)
- P.....
- Q.....
- (c) State two ways of treating timber (1mks)

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### SECTION C (40 mks)

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

23. (a) Describe the management of layers from one day old to the start of laying in a deep litter system. (14 mks)
- (b) Explain management practices that would improve fish production. (6 mks)
- 24 (a) State four disadvantages of using wood fuel as a source of power (4mks)
- (b) Explain five factors that would ensure maximum and efficient cultivation using oxen. (10mks)
- (c) State six differences between tractor drawn mould board and disc ploughs (6mks)
- 25.( a) Explain seven factors that may predispose livestock to a disease (14mks)
- (b) State six symptoms of tapeworm attack on livestock (6mks)



NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**AGRICULTURE FORM 4**

**PAPER 2 (443/2)**

Time: 2 hours

**SERIES 9 2024 TOP RANK PREDICTION MOCK EXAM**

**INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided
- This paper consists of three sections **A**, **B** and **C**.
- Answer all the questions in sections **A** and **B** and any other two in section **C**
- All answers must be written in the spaces provided in this booklet.

**FOR EXAMINERS USE ONLY**

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-19	30	
B	20-23	20	
C	24-26	40	
	<b>TOTAL SCORE</b>	<b>90</b>	

**SECTION A ( 30 MARKS )**

**ANSWER ALL QUESTIONS IN THE SPACES PROVIDED**

1. List two cattle diseases caused by viruses. (1mark)

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2. State one use for each of the following tools

a) Spoke shave

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b) Plumb bob

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3. List two distinguishing external characteristics of California breed of rabbit. (1mark)

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4. State four reasons for culling a breeding boar . (2marks)

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5. State any two disadvantages that may arise from inbreeding in livestock. (1mark)

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6. State two reasons for seasoning timber before use . (1mark)

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7. a) Differentiate between a roughage and a concentrate feed in animal nutrition.(1mark)

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b)State four desirable qualities of a livestock ration. (2marks)

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8. State three factors that may influence the amount of water intake by a farm animal .(1 ½ marks)

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9. State three advantages of keeping a herd of dairy cattle healthy. (1½ marks)

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10. Give three reasons for dehorning cattle. (1½ marks)

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11. Give two methods of extracting honey from honey combs (1mark)

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12. a) Give four reasons for candling eggs in poultry production. (2marks)

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b) Give four maintenance practices that should be carried out on the mould board plough .(2marks)

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13. a) List four harmful effects of internal parasites in livestock. (2marks)

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(b) (i) Give two reasons for washing the udder with warm water before milking . (1mark)

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(ii) Name three dairy goats kept in Kenya . (1½ marks)

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14. Name **two** diseases that affect female animals only (1 mark)

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15. What is the function of a spillway in a fish pond (½ mark)

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16. Name three types of lubrication systems used in tractors . (1½ marks)

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17. Give the functions of the following parts of an ox-plough

a) Land side (½mark)

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b) Draft rod ( ½ mark)

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18. Give three structural requirements for a grain silo. (1½ marks)

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19 State three advantages of natural feeding in calf rearing. (1½ marks)

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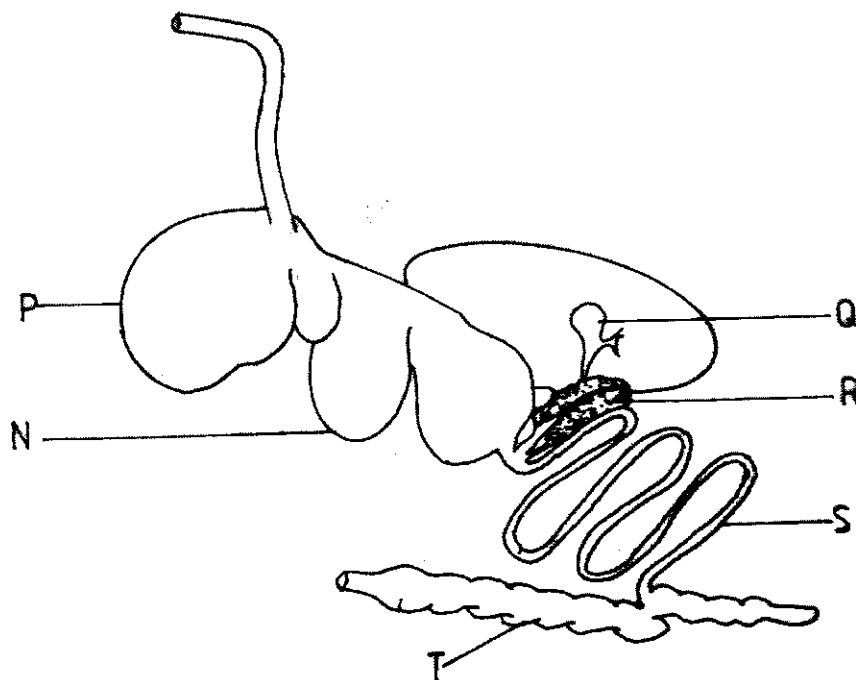
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**SECTION B ( 20 MARKS )**

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

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



- a). Name the parts labelled N, P and Q.

N ..... (1 mark)

P ..... (1 mark)

- b). State one function for each of the parts labelled S and T.

S..... (1 mark)

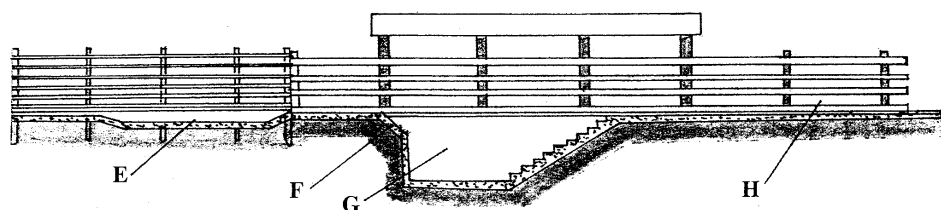
T ..... (1 mark)

- c). Give one enzyme produced by each of the parts labelled R and S.

R ..... (1/2 marks)

S ..... (1/2 marks)

21. The illustration below shows a cross section of a cattle dip.



a) Name the parts labelled E and G.

E..... (1mark)

G..... (1mark)

b) State one use for each of the parts labelled E, F and H. (3marks)

E.....

F.....

H.....

22. The following diagrams show animals with deficiency symptoms of some minerals. Study the diagrams carefully and answer the questions that follow.



(a) State the nutrients lacking in the diet of each animal shown above.

Animal G ..... (1mark)

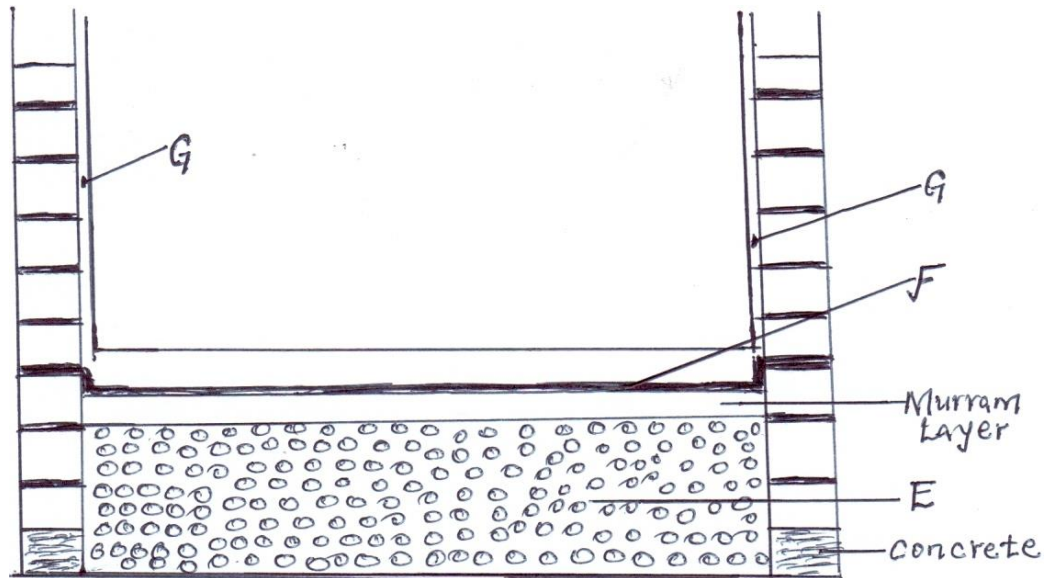
Animal H..... (1mark)

(b) Name the disease whose symptoms are shown by the animal labeled G above. (1 mark)

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 .....

(c) Give **two** reasons why the disease named in (b) above should not be controlled by giving ..... medicine through the mouth. (2marks)

23. The diagram below represents a foundation of a farm structure. Study it and answer questions that follow.



(a) Identify the parts labeled E and F.

E..... (1mark)

F..... (1mark)

(b) State two uses of part labeled F in a foundation structure. (2marks)

(c) What ingredients are used to complete part G (1mark)

### SECTION C (40 MARKS)

Answer any two questions in this section in the spaces provided at the end of each question.

24. (a) Describe the uses of fences on the farm. (10 marks)

(b) Describe Newcastle disease under the following sub-headings

(i) causal organism; (1 mark)

(ii) signs of infection; (7 mark)

(iii) control measures. (2 marks)

25. a) Describe the rearing of lambs from lambing up to weaning time (10 marks)

b) Explain **five** causes of livestock diseases (5 marks)



- c) State **five** differences between Ruminants and non Ruminants (5 marks)
- 26.a. State and explain **five** preventive measures of livestock diseases. (10 Marks)
- b. Describe long term service carried out during tractor servicing. (6 Marks)
- c. Outline four functions of the gearbox in a tractor. (4 Marks)

NAME.....ADM.....  
 SCHOOL.....INDEX.....  
 DATE.....SIGN.....TARGET.....

## AGRICULTURE FORM 4

### PAPER 2 (443/2)

Time: 2 hours

## SERIES 10 2024 TOP RANK PREDICTION MOCK EXAM

### INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- The paper consists of **three** sections A, B and C.
- Answer all questions in section A and B in the spaces provided
- Answer **any two** questions from section C in the spaces provided

### FOR EXAMINER'S USE ONLY

Section	Question	Maximum score	Candidate's score
<b>A</b>	1–17	30	
<b>B</b>	18	20	
	19		
	20		
	21		
<b>C</b>	22-24	40	
	<b>TOTAL</b>	90	

**SECTION A (30MARKS)**

*Answer all questions in this section*

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

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

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

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

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- (b) Give **two** reasons for seasoning timber (1 mark)

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

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

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7. (a) What is a notifiable disease? (1 mark)

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

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

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

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

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

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

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

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**14. State the gestation period of the livestock animals given below**

a) Rabbit (½ mark)

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b) Goat (½ mark)

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

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

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**17. State four methods used to control cannibalism in a deep litter system (2 marks)**

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**18. (a) Give **three** uses of Biogas in the farm (1 ½ marks)**

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**(b) State **three** reasons why the use of wind power on the farm is limited. (1 ½ marks)**

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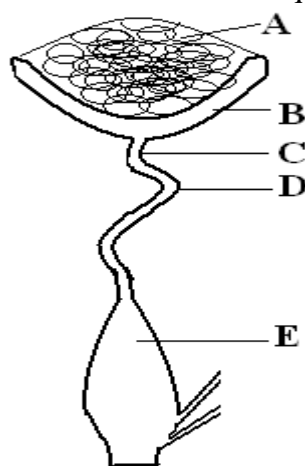
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**SECTION B (20 marks)**

**Answer ALL questions in this section.**

**19. 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)**

A

.....  
.....  
B

.....  
.....  
C

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D

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E

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(ii) State the function of each part.

(2½ marks)

A

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B

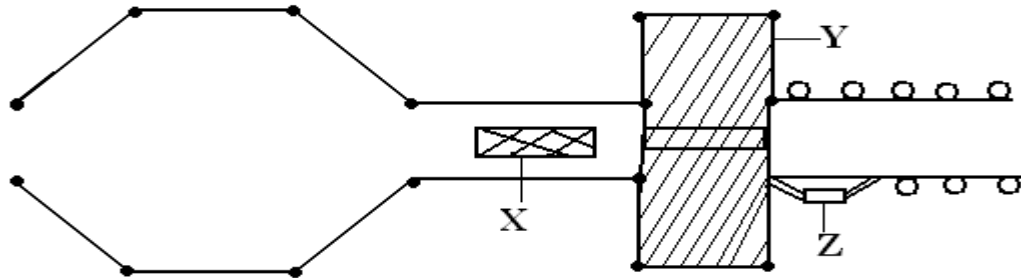
.....  
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C

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D

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E

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

- 21.** 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)

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- b) Name the parts labeled X, Y and Z. (3 marks)

X

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Y

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Z

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- c) List two roles of the part labeled Y. (2 marks)

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

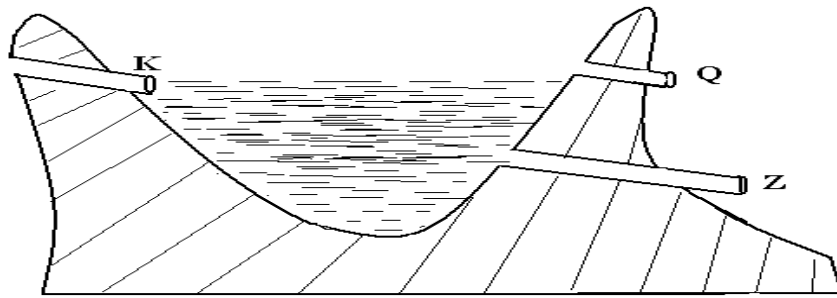
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23. The illustration below is a farm structure.



a) Identify the structure.

(1 mark)

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b) Name the parts labeled K, Q and Z.

(3 marks)

K

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Q

.....

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Z

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c) Give four maintenance practices carried out on the above structure.

(2 marks)

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### **SECTION C**

**Answer only two questions from this section.**

- 24.** (a) Describe the control measures of cannibalism in layers. **(10 marks)**  
(b) State **five** maintenance practices of a mould board plough. **(5 marks)**  
(c) State the advantages of a four stroke engine. **(5 marks)**
- 25.** (a) Describe **six** effects of parasite on livestock **(6 marks)**  
(b) Explain **five** reasons for maintaining farm tools and equipment **(5 marks)**  
(c) Discuss the management of layers in a deep litter system **(9 marks)**
- 26.** (a) Explain the practices observed in clean milk production **(8 marks)**  
(b) Explain the importance of fences in a farm **(12 marks)**

## **WE HAVE ALSO THE FOLLOWING**

### **1. MATHEMATICS**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER,MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR

### **2. ENGLISH**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER, MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR
- POETRY QUESTIONS AND ANSWERS
- POETRY NOTES
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### **3. KISWAHILI**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER, MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR
- USHAIRI QUESTIONS AND ANSWERS
- USHAIRI NOTES
- ALL SETBOOK QUESTIONS, VIDEOS,GUIDES AND ANSWER AVAILABLE

### **4. BIO,CHEM,PHY,AGRIC,BST,COMP,HMSC,GEO,HIST,CRE**

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- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER,MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
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