

MINISTRY OF EDUCATION
DEPARTMENT OF BASIC EDUCATION(SECONDARY)

Name Class Adm No.....

Date..... sign.....

FORM 3

AGRICULTURE pp2

443/2

END OF TERM 3 2024

TIME: 2hrs

Instruction to candidates.

1. Write your **Name, Class and Admission number** in the spaces provided above.
2. This paper consists of **three** sections **A, B and C**.
3. Answer **all** questions in section A and B.
4. Answer **any two** questions from section C.
5. **All** answers should be written in the spaces provided.
6. NB. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
7. Additional foolscaps shall be provided for questions in section C.

Question	Max score	Candidate Score	Total Score
SECTION A	30Marks		
SECTION B	20marks		
Section C	40 Marks		

1. (a) Name two developmental stages of liver fluke that occur in water snail (1mk)

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(b) State two ways in which proper nutrition control livestock diseases. (1Mk)

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2. (a) Name the primary products of the following livestock (1Mk)

Angora goat.....

Donkey.....

(b) State two important of housing a calf singly (1Mk)

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3(a) Outline two requirements of ideal housing that help to control livestock diseases.(1Mks)

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(b). Name two livestock diseases that are bacterial and zoonotic (1Mks)

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(c) outline two types of vaccines used to control livestock diseases (1Mks)

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4. a) State two signs of heat observed on the vulva of a cow (1Mk)

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(b) State two reasons for in breeding in livestock production (1Mk)

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5. State two precautions observed during wool shearing (1mk)

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b) State factors that determine digestibility of feed in livestock (1mk)

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6(a) Explain two characteristics of good site for a fish pond (1Mk)

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(b) Name two parts of building that is reinforced by concrete and iron rods (1Mk)

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7(a) State two practices done on a newborn calf with difficult breathing (1Mk)

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(b) State two disadvantages of plunge dip in tick control (1mk)

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(c) Name two livestock diseases controlled by embryo Transplant (1Mk)

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8(a) Differentiate between drift and pen lambing (1Mk)

Drift.....

Pen.....

(b) Name the nutritional deficiency of the following livestock diseases (1Mk)

Milk fever.....

Bloat.....

9.(a) State two control measures of keds in sheep (1Mk)

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(b) State one function of the following parts during egg formation (1Mk)

Funnel.....

Magnum.....

10. (a) Name two tools used when laying concrete block during construction of a wall (1mk)

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(b) Suggest two reasons why dorper sheep breed is good for mutton production (1Mk)

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11(a) explain how the following is measured in cattle (1Mk)

Respiratory rate

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Pulse rate

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(b) A cow was bellowing frequently at 6AM on 24/09/2024 suggest appropriate time for serving. (1Mk)

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12.(a) State two microbial activities that occur in lumen of ruminants animal (1Mk)

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(b).State two characteristics of animal that require high maintenance ration (1Mk)

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13 (a) State functions of following farm tools (1Mk)

Stock and die.....

Elastrator.....

14. Differentiate between ringing and raddling (1Mk)

Ringing.....

Raddling

15(a) State two ways in which infections disease is spread from one animal to the other (1Mk)

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(b) State two importance of identification (1Mk)

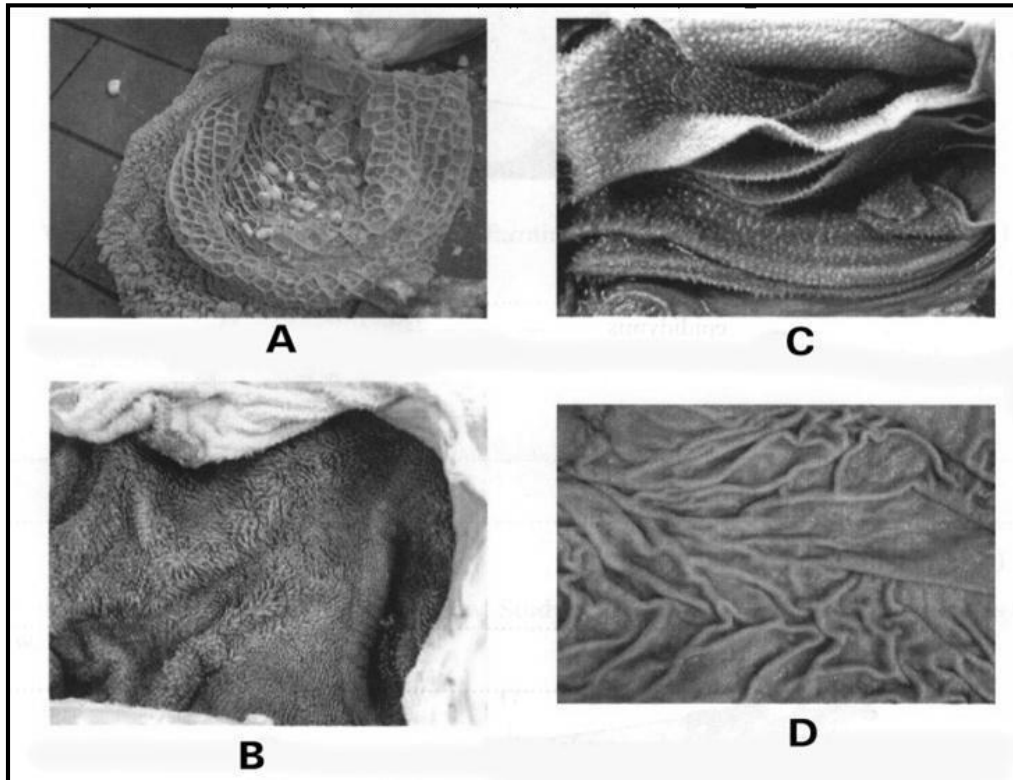
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SECTION B (20 marks)

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

16. Below are photographs showing parts of a ruminant digestive system. Study them and answer the questions that follow.



(a) Identify the parts labeled **A** and **B**. (1 marks)

A.....

B.....

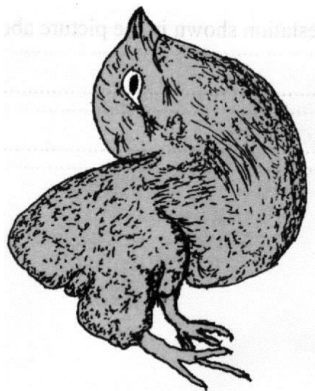
(b) State **one** function of the part labeled **c**

C (1/2mk)

(c) Name **one** enzyme that is produced in the part labeled **D**. (1/2 mark)

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17. The following is an illustration of a chick suffering from malnutrition.



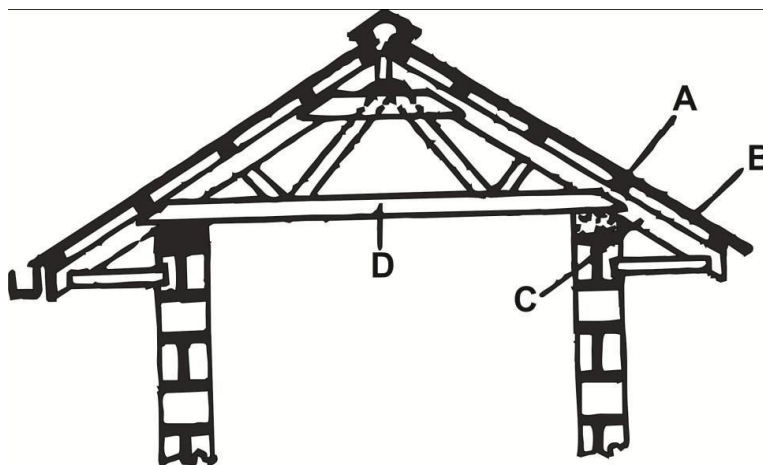
a) Identify the mineral deficiency shown by the chick.

(1mk)

(b) Apart from the symptom illustrated above, give two other symptoms of mineral deficiency in poultry.

(1mk)

18. The diagram below represents parts of a roof. Study it and answer questions that follow.



a. Identify the parts labeled A and C. (1mk)

A.....

C.....

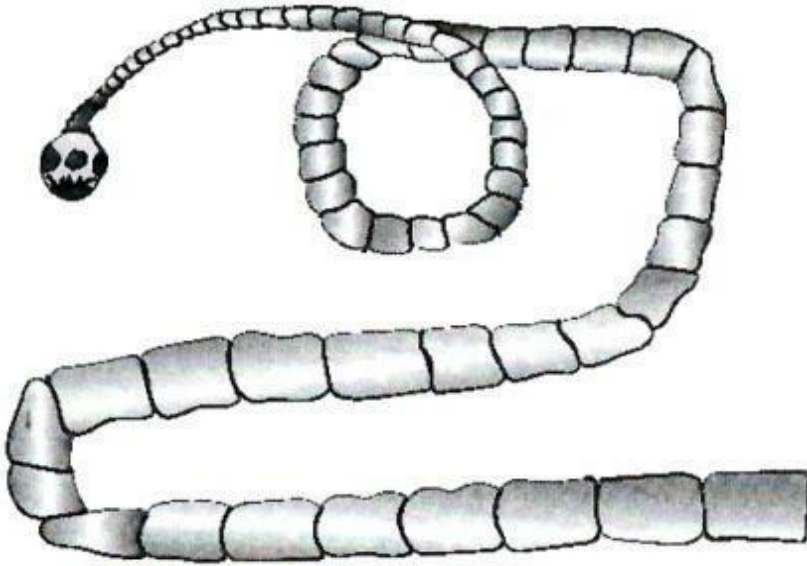
b. State **one** types of materials that may be used for the part labeled D. (1 mk)

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c) Give **one** disadvantage of using thatch for the part labeled B. (1 mk)

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19. The diagram below illustrates an internal parasite of livestock.



a) Explain how the parasite is passed from Livestock to human beings (1mk)

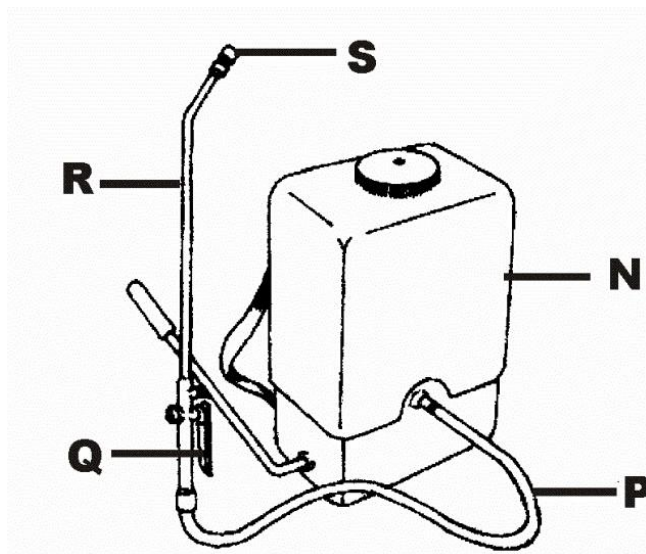
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b) Suggest one control measures for the parasites in a zero grazing unit. (1mk)

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



(a) Name the parts labeled P and R. (1mark)

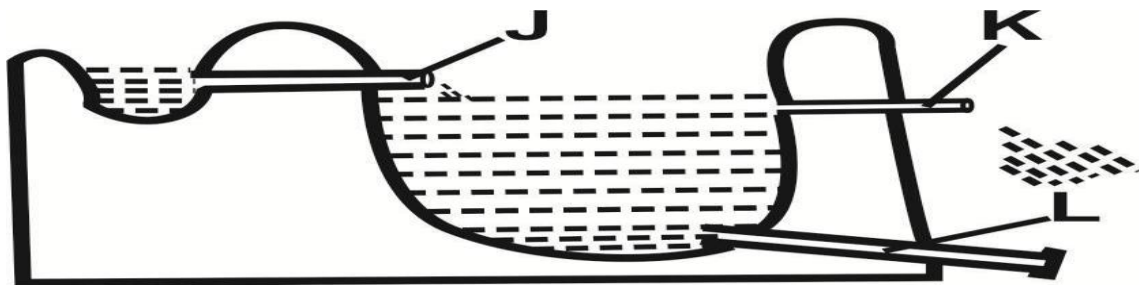
P.....

R.....

b) State **one** function of the part labeled S. (1 mark)

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21. The diagram below shows a cross section of a fish pond.

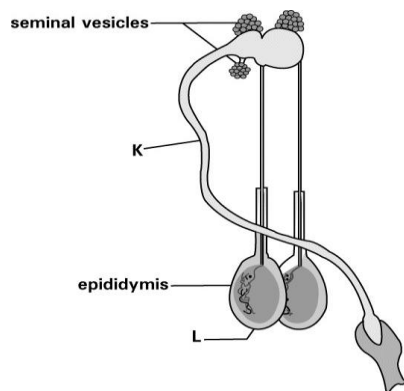


a) Give one reason why a pond should have a deep end (1mk)

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b) Explain how fingerlings are introduced into a pond. (1mk)

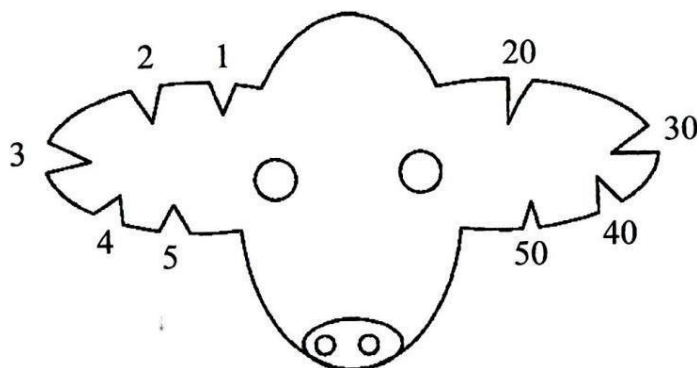
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 22. Below is a diagram illustrating the reproductive system of a bull. Study it and answer the questions that follow.



a)Identify the parts labelled (1 mark)

b)State the function of the part labeled Epididymis (1 mark)

23. The diagram below represents a practice of identifying livestock on a farm.



a) Determine the number that identifies the animal represented by the illustration (1mark)

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b) Give one reasons why this method of identification is discouraged in livestock rearing
(1mark)

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24. A farmer wants to prepare 200kg of calf rearing ration containing 20% DCP. Using the Pearson's square method, calculate the amount of maize containing 10% DCP and sunflower containing 35% DCP the farmer would need to prepare the ration. (Show your working).

(3mks)

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SECTION C (40 marks)

Answer any two questions from this section.

- 25.a) Describe the functions of the various types of pens in a piggery unit. (5 mks)
b) Describe harmful effect of liver fluke in sheep (4mk)
c) Describe procedure of establishing wire fence (6mk)
d) Outline **five** reasons why embryo transfer should be encouraged in dairy cattle breeding.

(5 marks)

- 26(a) Describe procedure of harvesting honey from Kenya top bar hive (6marks)

- (b) Explain **three** disease control routine management practices in livestock production.(3 marks)

- (c) Describe **three** indicators that can be observed on a goat to confirm sickness. (3 mark)

- (d) Explain **four** factors that should be considered when siting a farm store. (4 marks)

- (e) Outline **four** disadvantages of artificial insemination. (4 marks)

- 27 a) outline **five** differences between ruminant and non-ruminant digestive systems.(5 marks)

- b) Describe the life cycle of a red legged tick. (5 marks)

- c) Outline **three** management practices carried out on a fish pond. (3mark)

- d) Describe East Coast fever disease under the following sub-headings;

- (i) Vector (1 mark)

- (ii) causal organism; (1 marks)

- (iii) Signs of attack; (3 marks)

- (iv) Control measures. (2 marks)