

SECTION A (30 marks)

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

1. Give **four** reasons why a farmer may use a *Jembe* instead of a disc plough. (6)

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2. Name **four** sheep breeds reared in Kenya.

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3. Give **four** ways in which a farmer can restrain a bull on the farm.

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4. Name the **four** stages ticks go through in their life-cycle.

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5. State **four** factors that determine the amount of water taken by an animal. (2 marks)

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6. Distinguish between each of the following pair of terms as used in livestock production:

- (a) selection and breeding (1 mark)

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- (b) inbreeding and line breeding (1 mark)

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7. State **four** signs of parturition in goats. (2 marks)

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8. Name **four** materials a farmer requires in order to construct a barbed wire fence. (2 marks)

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9. State **four** symptoms of coccidiosis infection in chicks. (2 marks)

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10. State **four** management practices carried out to prevent occurrence of parasites in a poultry house. (2 marks)

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

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12. State **four** uses of solar energy in a farm. (2 marks)

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13. (a) State the colour difference between the Galla and Saanen goat breeds. (1 mark)

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(b) Name **one** goat breed that is reared for:

(i) mohair (½ mark)

(ii) meat (½ mark)

14. State **four** ways in which proper housing helps to control livestock diseases. (2 marks)

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15. State **one** use of each of the following farm tools:

- (a) pruning hook (½ mark)

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- (b) dosing gun (½ mark)

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- (c) bow saw (½ mark)

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- (d) crowbar (½ mark)

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(Answer 3) *.....*

(Answer 4) *.....*

(Answer 5) *.....*

SECTION B (20 marks)

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

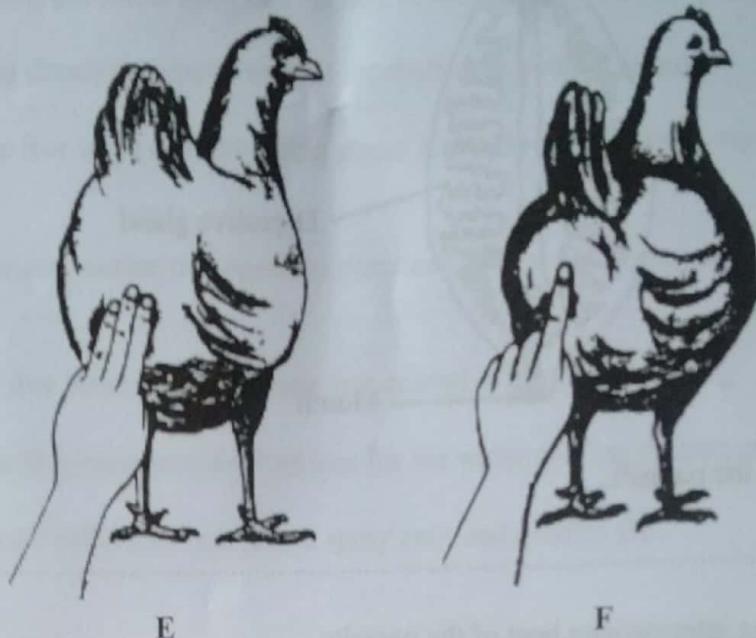
16. A farmer wants to prepare 100 kg ration containing 20% DCP from wheat (10% DCP) and sunflower seed cake (35% DCP). Using the Pearson's square method, calculate the quantity of wheat and sunflower seed cake the farmer requires. (5 marks)

17. The picture below shows a poultry rearing system.



- (a) Identify the rearing system. (1 mark)
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- (b) From the picture, state **two** ways in which the system can lead to low egg production. (2 marks)
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- (c) State **two** ways in which the rearing system can lead to loss of birds. (2 marks)
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18. The diagram below shows a practice carried out by poultry farmers to determine productivity of layer birds.



E

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- (a) Give **one** reason for carrying out the practice in poultry rearing. (1 mark)

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- (b) Apart from the practice shown above, give **two** other features observed on the birds to determine productivity. (2 marks)

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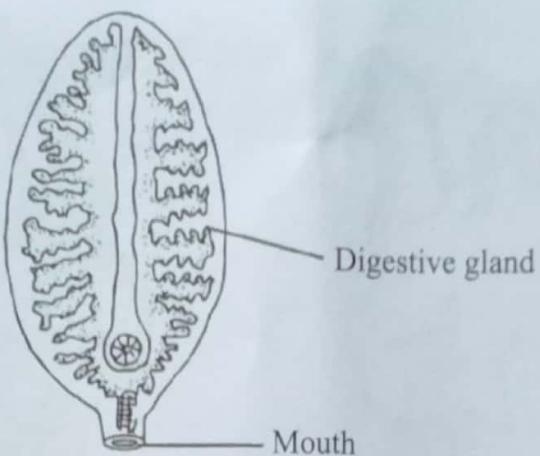
- (c) From the diagram, which advice should be given to the farmer on each of the birds:
Bird E (1 mark)

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- Bird F (1 mark)

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19. Below is a diagram of a livestock parasite.



(a) Identify the parasite. (1 mark)

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(b) Name the intermediate host of the parasite. (1 mark)

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(c) Explain how each of the following practices helps to control the parasite:

(i) applying copper sulphate on stagnant water (1 mark)

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(ii) drenching infested animals with antihelmintics (1 mark)

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(iii) rotational grazing (1 mark)

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SECTION C (40 marks)

Answer any two questions from this section in the spaces provided after question 22.

20. (a) Give **five** disadvantages of natural incubation in poultry rearing. (5 marks)

(b) Describe **five** ways of minimising stress in a deep litter poultry rearing system. (5 marks)

(c) Describe **ten** routine management practices carried out during calf rearing. (10 marks)

21. (a) Explain **five** reasons why farmers use animal drawn implements. (5 marks)

(b) Describe **five** maintenance practices for the water cooling system of a tractor. (5 marks)

(c) Explain the difference between a spray race and a cattle dip. (10 marks)

22. (a) Describe **ten** routine management practices carried out in the rearing of male calves. (10 marks)

(b) Describe anthrax disease under each of the following sub-headings:

(i) causal organism (1 mark)

(ii) symptoms of infection (4 marks)

(iii) control measures (5 marks)