

**SECTION A (30 marks)**

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

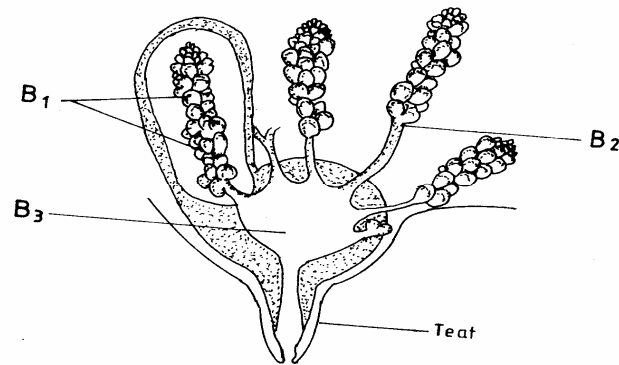
- 1 State **four** factors that determine the amount of water required by livestock. (2 marks)
- 2 State **three** factors that would determine the effectiveness of an acaricide. (1½ marks)
- 3 Name a breed of goat kept for hair production. (½ mark)
- 4 Differentiate between homogenization and pasteurization in milk processing. (1 mark)
- 5 Name a tool used for tightening barbed wire during fencing. (½ mark)
- 6 State **one** use of a sledge hammer on the farm. (½ mark)
- 7 What is dry cow therapy? (1 mark)
- 8 What is heterosis in livestock breeding? (1 mark)
- 9 State **four** factors that would contribute to the depreciation of farm equipment. (2 marks)
- 10 What is the function of the draw bar of a tractor? (½ mark)
- 11 Name the **two** types of air cleaners used in tractors. (1 mark)
- 12 What is the reason for turning eggs regularly during incubation? (1 mark)
- 13 Name the part of poultry digestive system in which cellulose is digested. (½ mark)
- 14 State **four** practices that should be carried out on wooden fencing posts to make them last long. (2 marks)
- 15 Name **four** structures which would assist in the control of livestock parasites on a farm. (2 marks)
- 16 Differentiate between mothering ability and prolificacy in livestock breeding. (1 mark)
- 17 Give **two** reasons for flushing in sheep management. (1 mark)
- 18 Give **three** uses of biogas on a farm. (1½ marks)
- 19 Name the causative agent of Gumboro disease in poultry. (½ mark)

- 20 State how the following practices can be used to control livestock diseases:
- (a) Quarantine; (1 mark)
- (b) Prophylactic measures. (1 mark)
- 21 State **two** reasons why proper nutrition is important in animal health. (1 mark)
- 22 State **four** predisposing factors to mastitis in dairy cattle. (2 marks)
- 23 Give **two** harmful effects of Keds (*Melophagus Orinus*) in sheep. (2 marks)
- 24 Name the breeds of livestock described below:
- (a) A pig breed which is white in colour, with straight snout and long ears drooping over the face; (1 mark)
- (b) A beef cattle breed, deep red in colour; the face and part of the legs below the knees and hocks are always white. (1 mark)

**SECTION B (20 marks)**

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

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



- (a) Identify the parts labelled **B<sub>1</sub>**, **B<sub>2</sub>** and **B<sub>3</sub>**. (3 marks)
- (b) Give **one** function of the part labelled **B<sub>1</sub>**. (1 mark)
- (c) Name the part of the teat which is likely to be injured by poor hand milking technique. (1 mark)
- 26 (a) Below are diagrams of fences **C** and **D**. Study them carefully and illustrate on diagram **C** how diagonal wire braces and on diagram **D** how horizontal wooden braces are used to reinforce the fencing posts. (2 marks)

Diagram C

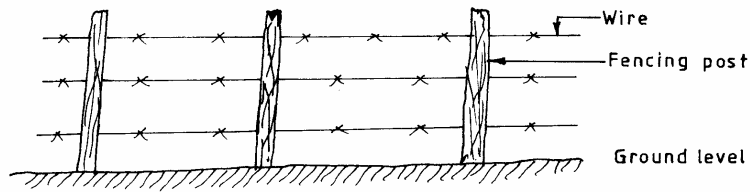
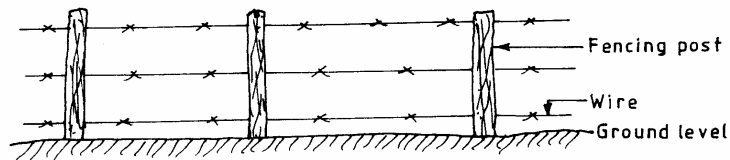
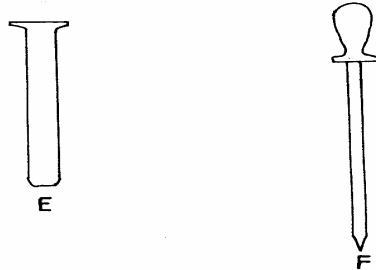


Diagram D

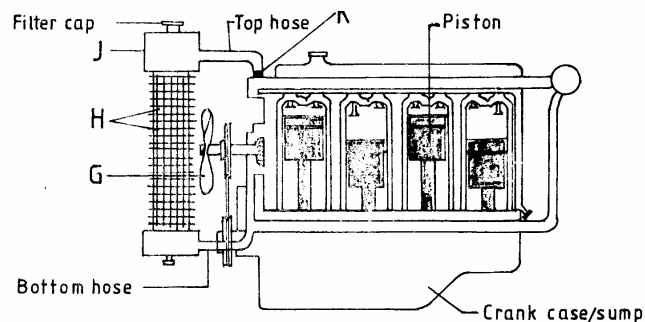


- (b) The diagrams below show a set of equipment used in livestock management. Study them and answer the questions that follow.



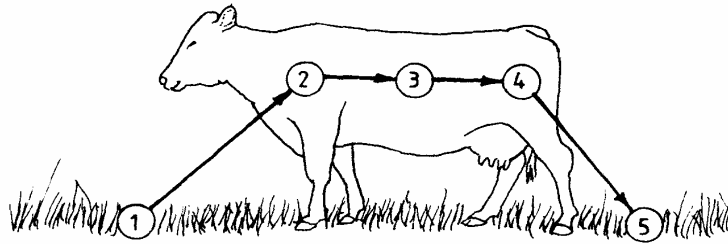
- (i) Identify the equipment labelled **E** and **F**. (1 mark)
- (ii) State the appropriate use of the set of equipment illustrated above. (1/2 mark)
- (iii) Describe the appropriate procedure followed when using the equipment. (2 marks)

- 27 The diagram below shows the cooling system of a tractor engine. Study it carefully and answer the questions that follow.



- (a) Name the parts labelled **G**, **H**, **J** and **K**. (2 marks)
- (b) State the functions of the parts labelled **G**, **J** and **K** in the cooling system. (3 marks)

- 28 The diagram below illustrates the stages of life cycle of a tick. Study the diagram and answer the questions that follow.



- (a) Describe the development of ticks at 1, 2, 3 and 4. (4 marks)
- (b) Classify the tick on the basis of the life cycle. ( $1/2$  mark)

### SECTION C (40 marks)

*Answer any TWO questions in this section in the spaces provided at the end of the section.*

- 29 (a) Describe the use of various hand tools required for the construction of a wooden rabbit hutch. (10 marks)
- (b) What factors should a farmer consider when selecting materials for constructing a dairy cattle shed. (10 marks)
- 30 (a) Describe the feeding practices carried out on a calf from birth to weaning. (10 marks)
- (b) Describe management practices that would ensure clean milk production in a dairy farm. (10 marks)
- 31 (a) Describe how the following tractor components are used to attach implements to the tractor:
- (i) Three (3) point linkage/hitch. (6 marks)
- (ii) Power Take Off shaft (P.T.O) (4 marks)
- (b) Describe how the ignition system of a tractor petrol engine works. (10 marks)

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