## K.C.S.E 2008 AGRICULTURE

## PAPER 2 (443/2)

## SECTION A (30 marks)

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

- Student Bounty Com 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)
- Name a breed of goat kept for hair production. (1/2 mark)
- Differentiate between homogenization and pasteurization in milk processing.(1 mark)
- Name a tool used for tightening barbed wire during fencing. (½mark)
- State one use of a sledge hammer on the farm. (1/2 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 a farm equipment.

(2 marks)

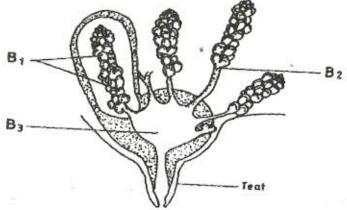
- What is the function of the draw bar of a tractor? (1/2 mark) 10.
- Name the two types of air cleaners used in tractors. 11. (1 mark)
- 12. What is the reason for turning eggs regularly during incubation? (1 mark)
- 13. Name the part of poultry digestive system in which cellulose is digested. (1/2 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)
- Give two reasons for flushing in sheep management. (1 mark)
- 18. Give three uses of biogas on a farm. (11/2 marks)
- Name the causative agent of Gumboro disease in poultry. (1/2 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: (2 marks)
  - (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)

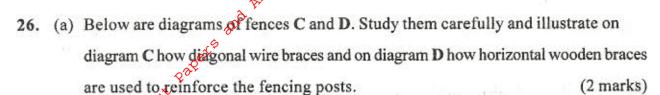
Answer ALL the questions in this section in the spaces provided.

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



- (a) Identify the parts labelled  $B_1$ ,  $B_2$  and  $B_3$ . (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)



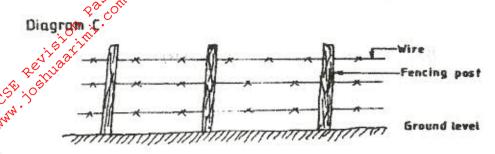
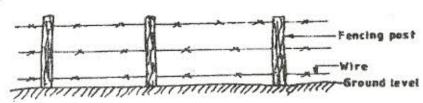
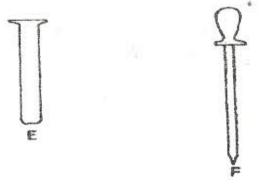


Diagram D



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



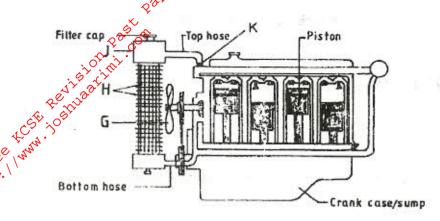
(i) Identify the equipment labelled E and F.

(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)

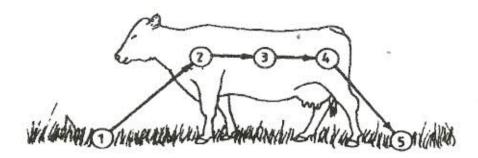
27. The diagram below shows the cooling system of a tractor engine. Study it carefully and answer the questions that follow.



(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)

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 (10 marks)
  - (b) What factors should a farmer consider when selecting materials for constructing a dairy cattle shed. (10 marks)
- (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)