R.C.S.E 2007 AGRICULTURE PAPER 2 (443/2)

SECTION A (30 marks)

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

- Give two reasons for using litter in a poultry house. 1. (1 mark) Name two diseases of poultry that are controlled by vaccination. (1 mark) State two factors that could lead to failure to conceive in sows after service. (1 mark) Give two causes of scouring in calves. (1 mark) 5. State three factors that would determine the amount of concentrate fed to dairy cattle. (1½marks) Give three ways of stimulating milk let-down in a dairy cow. 6. (1½ marks) 7. State two reasons for dehorning cattle. (1 mark) List two equipment used in handling cattle during an agricultural exhibition. (1 mark) 8. State three signs of anthrax infection disease observed in the carcass of cattle. 9. (11/2 marks) 10. Give three effects of external parasites that are harmful to livestock. (1½ marks) (2 marks) State four factors to consider when siting a fish pond. State three adjustments that should be carried out on a tractor-mounted mouldboard plough in preparation for ploughing. (1½ marks)
 - (b) Mention two distinguishing characteristics of the Bactrian camel breed. (1 mark)

(2 marks)

13. (a) Name four breeds of dairy goats.

- a Attemet
- 14. State five methods of maintaining good health in livestock. (2½ marks)
- 15. List four sources of farm power which are environmetal friendly. (2 marks)
- 16. State three maintenance practices that should be carried out on a feed trough.

(11/2 marks)

Name **four** systems of a tractor engine.

(2 marks)

18. List three types of calf pens.

(11/2 marks)

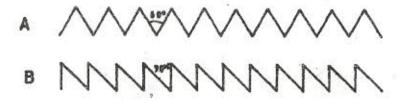
19. State four conditions that would encourage hens to eat eggs in poultry production.

(2 marks)

SECTION B (20 marks)

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

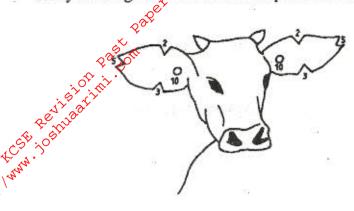
The diagrams labelled A and B below show the teeth arrangements in hand workshop tools.



- (a) Identify the tools represented with the teeth arrangements A and B. (1 mark)
- (b) State one functional difference between tools represented by the teeth arrangements A and B. (2 marks)
- (c) Give two maintenance practices for the tools represented by the teeth arrangements shown above. (2 marks)

21. (a) The diagram below illustrates a method of identification in livestock production.

Study the diagram and answer the questions that follow.



(i) Name the type of identification illustrated above.

(1 mark)

(ii) Give the identification number of the animal illustrated in the diagram above.

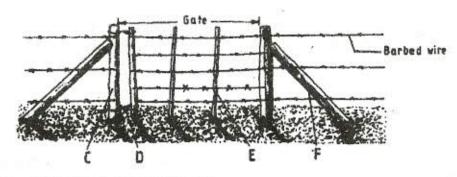
(1 mark)

(iii) Using diagrams illustrate how you can identify animals Nos. 24 and 36 using the above method. (2 marks)

Animal No. 24

Animal No. 36

- (b) If a sow was successfully served on 27th September, 2006, state the date she is likely to have farrowed. (1 mark)
- 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.

(1/2 mark)

(b) Name the parts labelled C, D and E.

(11/2 marks)

(c) (i) State one function of the part labelled F.

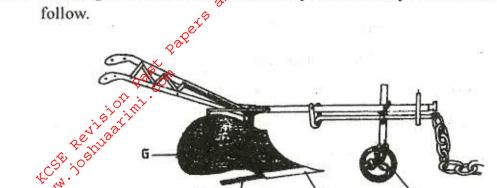
(1 mark)

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

(2 marks)

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23. The diagram below shows a farm implement. Study it and answer the questions that



(a) Identify the farm implement illustrated above. (1 mark)

(b) Name the parts labelled G, H, J and K. (2 marks)

(c) State four functions of the farm implement illustrated above. (2 marks)

SECTION C (40 marks)

Answer any TWO questions in this section in the spaces provided after question 26.

24. (a) Describe the advantages of the battery system of rearing layers. (10 marks)

- (b) Outline the factors to consider when selecting livestock for breeding. (10 marks)
- 25. (a) Name the strokes in a four stroke engine and describe how each operates.

 (12 marks)

(b) Describe the functions of the gear box in a tractor. (8 marks)

- 26. (a) Name and describe the features of an ideal calf pen. (9 marks)
 - (b) Discuss pneumonia in calves under the following sub-headings:

(i) predisposing factors (3 marks)

(ii) symptoms (5 marks)

(iii) control measures (3 marks)