
KENYA NATIONAL EXAMINATION COUNCIL

KCSE 2007

AGRICULTURE PAPER 2

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23.14.2 Agriculture Paper 2 (443/3)

Name Index No...../.....

443/2
AGRICULTURE
Paper 2
Oct. /Nov. 2007
2 hours

Candidate's Signature

Date

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education
AGRICULTURE
Paper 2
2 hours

INSTRUCTIONS TO CANDIDATES

*Write your name and index number in the spaces provided.
Sign and write the date of examination in the spaces provided above.
This paper consists of three sections: A, B and C.
Answer all the questions in sections A and B.
Answer two questions from section C.
Answers to ALL questions must be written in this booklet.*

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 - 19	30	
B	20 - 23	20	
C		20	
		20	
Total Score			

This paper consists of 12 printed pages

Candidates should check the question paper to ascertain that all the pages are printed as indicated and no questions are missing.

SECTION A (30 marks)

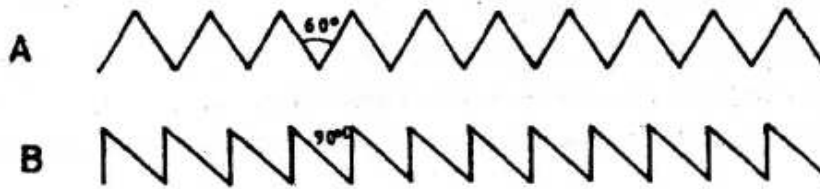
Answer **ALL** the questions in this section in the spaces provided.

- 1 Give **two** reasons for using litter in a poultry house. (1 mark)
- 2 Name **two** diseases of poultry that are controlled by vaccination. (1 mark)
- 3 State **two** factors that could lead to failure to conceive in sows after service. (1 mark)
- 4 Give **two** causes of scouring in calves. (1 mark)
- 5 State **three** factors that would determine the amount of concentrate fed to dairy cattle. (1½ marks)
- 6 Give **three** ways of stimulating milk let-down in a dairy cow. (1½ marks)
- 7 State **two** reasons for dehorning cattle. (1 mark)
- 8 List **two** equipment used in handling cattle during an agricultural exhibition. (1 mark)
- 9 State **three** signs of anthrax infection disease observed in the carcass of cattle. (1½ marks)
- 10 Give **three** effects of external parasites that are harmful to livestock. (1½ marks)
- 11 State **four** factors to consider when siting a fish pond. (2 marks)
- 12 State **three** adjustments that should be carried out on a tractor - mounted mouldboard plough in preparation for ploughing. (1½ marks)
- 13 (a) Name **four** breeds of dairy goats. (2 marks)
(b) Mention **two** distinguishing characteristics of the Bactrian camel breed. (1 mark)
- 14 State **five** methods of maintaining good health in livestock. (2½ marks)
- 15 List **four** sources of farm power which are environmental friendly. (2 marks)
- 16 State **three** maintenance practices that should be carried out on a feed trough. (1½ marks)
- 17 Name **four** systems of a tractor engine. (2 marks)
- 18 List **three** types of calf pens. (1½ marks)
- 19 State **four** conditions that would encourage hens to eat eggs in poultry production. (2 marks)

SECTION B (20 marks)

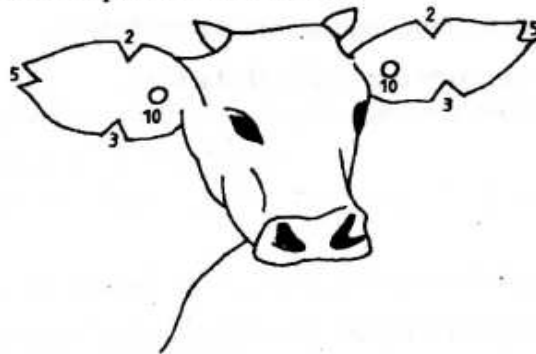
Answer **ALL** the questions in this section in the spaces provided.

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



- (a) Identify the tools represented with by 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.



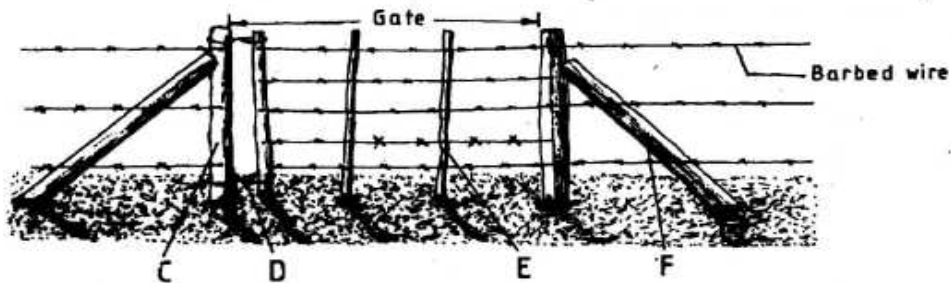
- (i) Name the type of identification illustrated above. (1 mark)
- (ii) Give the identification number of the animal illustrated in the diagram above. (1 mark)
- (iii) Using diagrams illustrate how you can identify animals Nos 24 and 36 using the above method. (2 marks)

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)

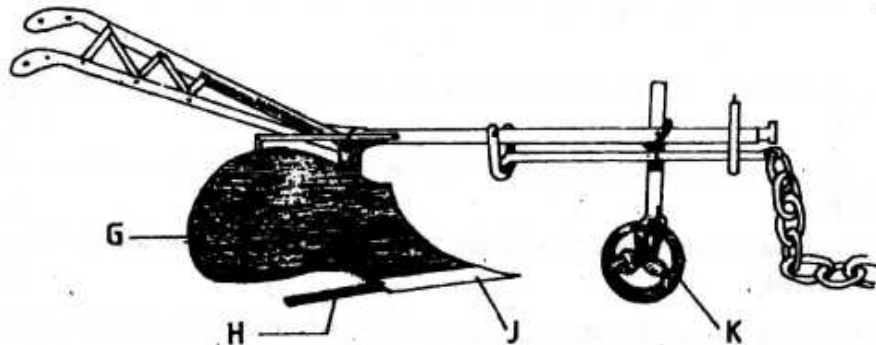
- 22 The diagram below shows a type of a farm gate. Study the diagram and answer the questions that follow.



- (a) Identify the type of gate shown. (1/2 mark)

- (b) Name the parts labelled C, D and E. (1½ mark)
- (c) (i) State **one** function of the part labelled F. (1 mark)
- (ii) State **two** functions of the gate illustrated above. (2 marks)

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



- (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)