
AGRICULTURE PAPER 2

KCSE 2011

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4.3.2 Agriculture Paper 2 (443/2)

SECTION A (30 marks)

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

- 1 State **four** maintenance practices for a disc plough. (2 marks)
- 2 Name **three** methods that are used in selection of breeding stock in livestock production. (1 $\frac{1}{2}$ marks)
- 3 State **four** advantages of using animals instead of tractors as a source of power on the farm. (2 marks)
- 4 Name **one** livestock disease that is transmitted by each of the following parasites:
- (a) blue ticks; ($\frac{1}{2}$ mark)
.....
- (b) brown ear ticks; ($\frac{1}{2}$ mark)
.....
- (c) tsetse flies. ($\frac{1}{2}$ mark)
.....
- 5 State **four** methods of controlling round worms (*Ascaris sp*) in livestock. (2 marks)
- 6 Give the meaning of the following terms as used in livestock health:
- (a) disease; (1 mark)
- (b) vaccination. (1 mark)
- 7 State **three** maintenance practices for a tractor battery. (1 $\frac{1}{2}$ marks)
- 8 Name the type of breed into which each of the following breeds of cattle are classified:
- (a) Aberdeen Angus; ($\frac{1}{2}$ mark)
.....
- (b) Guernsey; ($\frac{1}{2}$ mark)
.....
- (c) Sahiwal; ($\frac{1}{2}$ mark)
.....
- (d) Red poll. ($\frac{1}{2}$ mark)
.....

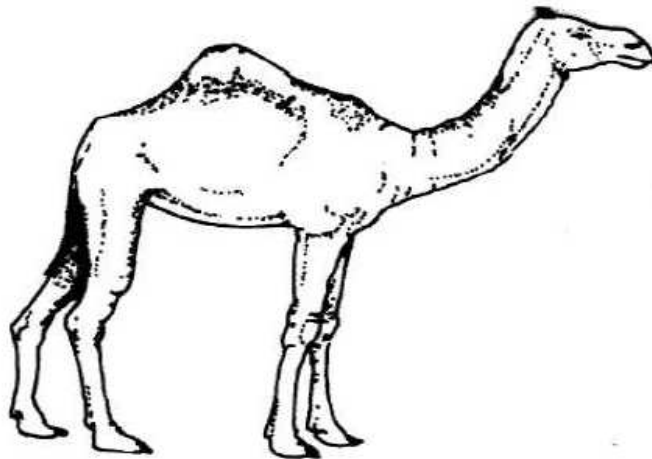
- 9 Give **two** ways in which proper nutrition helps to control livestock diseases. (1 mark)
- 10 List **four** categories of livestock diseases. (2 marks)
- 11 Name **two** breeding systems that can increase the frequency of high milk production genes in indigenous cattle. (1 mark)
- 12 Name **two** bloodless methods of castration in lambs. (1 mark)
- 13 Give the meaning of the following terms as used in livestock breeding:
- (a) recessive gene; (1 mark)
- (b) epistasis. (1 mark)
- 14 State **four** signs that indicate that a doe is about to kindle. (2 marks)
- 15 Name **two** developmental stages of a liverfluke (*Fasciola sp.*) which occur in the fresh water snail (*Limnaea sp.*). (1 mark)
- 16 Name the strokes in a four stroke cycle engine. (2 marks)
- 17 State **four** signs of mite attack in poultry. (2 marks)
- 18 State **three** advantages of natural feeding in calf rearing. (1 $\frac{1}{2}$ marks)

SECTION B (20 marks)

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

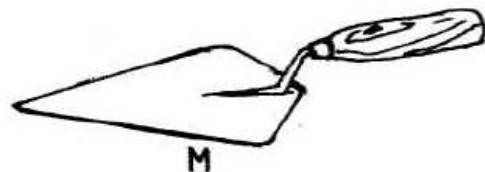
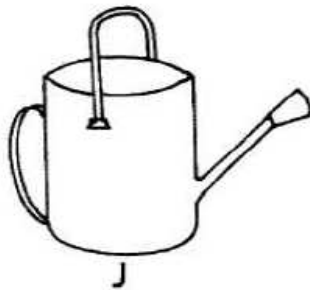
- 19 A dairy farmer is required to prepare 100 kg of dairy meal containing 20% Digestible Crude Protein (D.C.P.). Using the Pearson's Square Method, calculate the quantity of soya bean (40% D.C.P.) and rice (16% D.C.P.) the farmer requires for the dairy meal. (4 marks)

20 Below is an illustration of a camel. Study it and answer the questions that follow.



- (a) Identify the camel species illustrated above. ($\frac{1}{2}$ mark)
.....
- (b) Name **three** products that farmers obtain from the camel species illustrated above. ($1\frac{1}{2}$ marks)
- (c) Give **two** reasons why the camel species illustrated above is able to survive in its natural habitat. (2 marks)

21 The diagram below represents farm tools and equipment. Study them and answer the question that follow.



- (a) Identify the tool / equipment labelled **J**, **K** and **M**.

J($\frac{1}{2}$ mark)

K($\frac{1}{2}$ mark)

M($\frac{1}{2}$ mark)

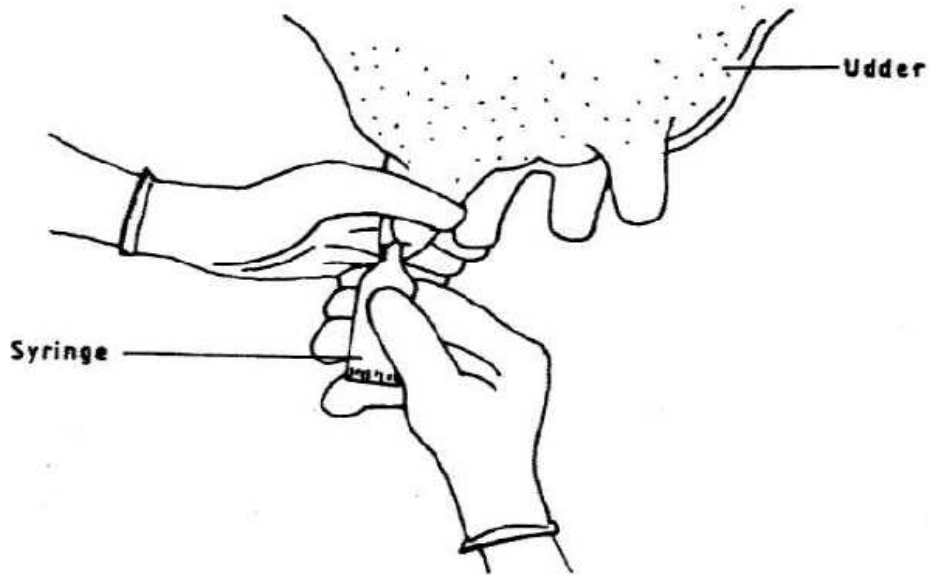
(b) State **one** use for each of the tool / equipment labelled **K** and **L**.

K(1 mark)

L(1 mark)

(c) Give **two** maintenance practices for the equipment labelled **K**. (1 mark)

22 The illustration below shows a practice carried out to prevent mastitis infection in a dairy cow.



(a) Identify the practice. ($\frac{1}{2}$ mark)

.....

(b) At what stage is the practice carried out? ($\frac{1}{2}$ mark)

.....

(c) State **two** other practices that are carried out on the udder to prevent mastitis infection. (2 marks)