

Name ..... Date .....

Index No. .... Class ..... Sign. ....

443/2  
AGRICULTURE  
PAPER 2  
JULY 2013  
2HRS

# LARI DISTRICT PRE – K.C.S.E

Kenya certificate of Secondary Education  
Agriculture paper 2

## INSTRUCTIONS

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the space provided above.
- Answer all the questions in sections A, B and any two questions from section C.
- Answers must be written in the spaces provided in this booklet.

## FOR EXAMINER'S USE ONLY

Sections	Questions	Maximum Score	Candidate's score
A	1 – 19	30	
B	17 – 23	20	
C	24 – 26	40	
	<b>TOTAL SCORE</b>	<b>90</b>	

**SECTION A (30 MARKS)**

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

1. What is "dry cow therapy" (1 mk)
- \_\_\_\_\_
- \_\_\_\_\_
2. Name a tool used for tightening barbed wires during fencing. (½ mk)
- \_\_\_\_\_
- \_\_\_\_\_
3. State four maintenance requirements of a jackplane (2 mks)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_
4. List three precautions taken when seasoning timber by air for construction (1 ½ mks)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
5. State two desirable qualities of a livestock ration. (1 mk)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
6. Name two methods used by farmers to prevent piglet anaemia (1 mk)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
7. State Four causes of stress to a flock of layers (2 mks)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_
8. State two disadvantages of inbreeding in dairy cattle production (1 mk)
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

9. List Four non-chemical methods of controlling ticks in cattle (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

10. Give three examples of a one-host tick (1 ½ mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

11. State Four disadvantages of natural mating as a method of breeding in dairy cattle. (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

12. State Four qualities of clean milk. (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

13. Name three types of lubrication systems of a tractor. (1 ½ mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

14. Outline four maintenance practices carried out on trailers (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

15. State four reasons for dehorning cattle. (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

16. (a) Why is too much air in the Silo, undesirable in the process of making silage? (1 mk)

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(b) Name three types of silos for making silage (1 ½ mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

17. State four symptoms that will show that a cow is suffering from milk fever. (2 mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_
- (iv) \_\_\_\_\_

18. State three observation features that help differentiate the dromedary camel from the bactrian camel (1 ½ mks)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (iii) \_\_\_\_\_

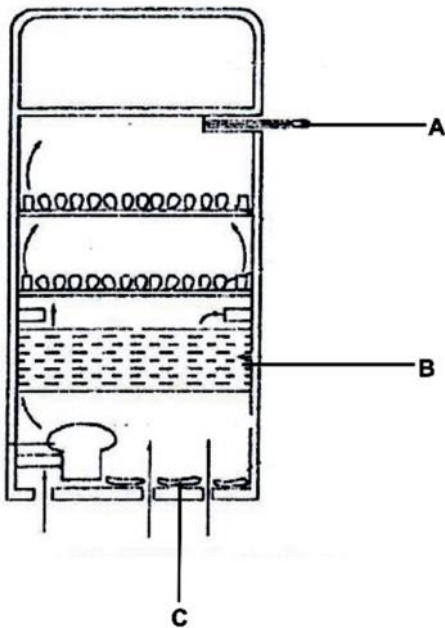
19. Give two importance of additives in livestock feed. (1 mk)

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

**Section B (20 MARKS)**

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

20. The illustration below represents equipment used in poultry production. Study it carefully and answer the questions that follow.



(a) Identify the equipment

(1 mk)

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(b) Name the parts labeled A, B and C

(1 ½ mks)

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

(c) What is the function of the parts labeled A, B and C

(1 ½ mks)

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

(d) Why is it important to turn the eggs around 180° every 6 – 8 hrs?

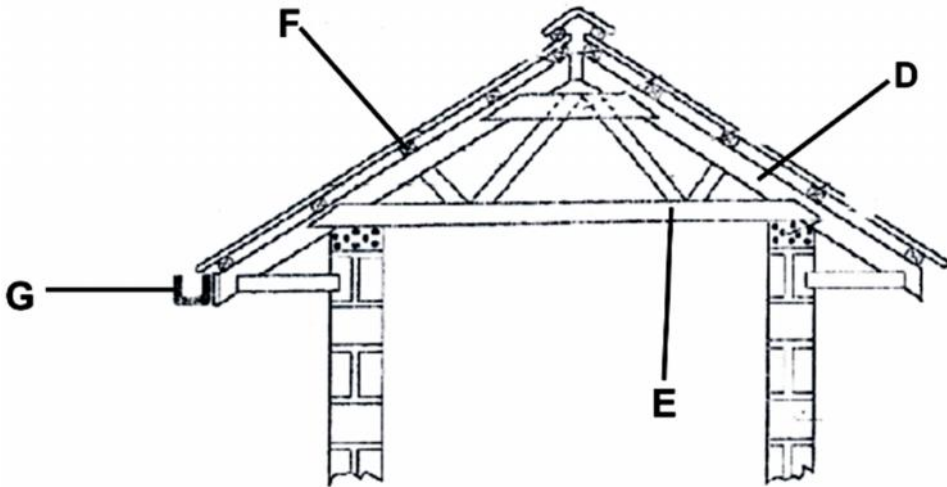
(1 mk)

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21. Study the illustration below and answer the questions that follow.



(a) Identify the parts labeled D, E, F and G.

(2 mks)

D. \_\_\_\_\_

E. \_\_\_\_\_

F. \_\_\_\_\_

G. \_\_\_\_\_

(b) State two uses of part labeled F

(1 mk)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Outline two reasons why it is important to have the structure labeled G at the edge of the roofing materials

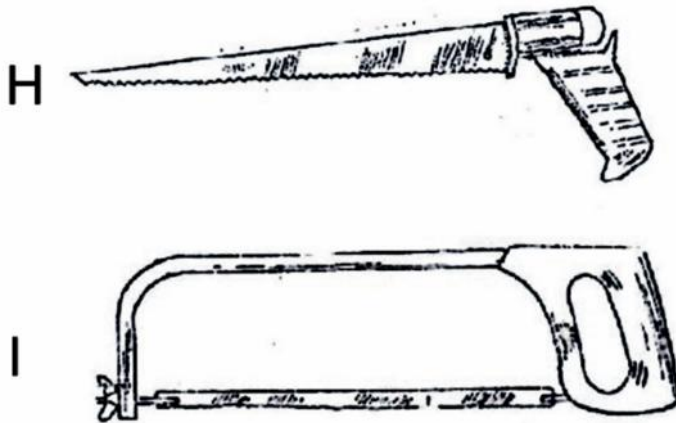
(2 mks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

22. (a) Identify the tools illustrated below.

(1 mk)



H. \_\_\_\_\_

I. \_\_\_\_\_

(b) State one use of each of the above tools

(2 mks)

H. \_\_\_\_\_

I. \_\_\_\_\_

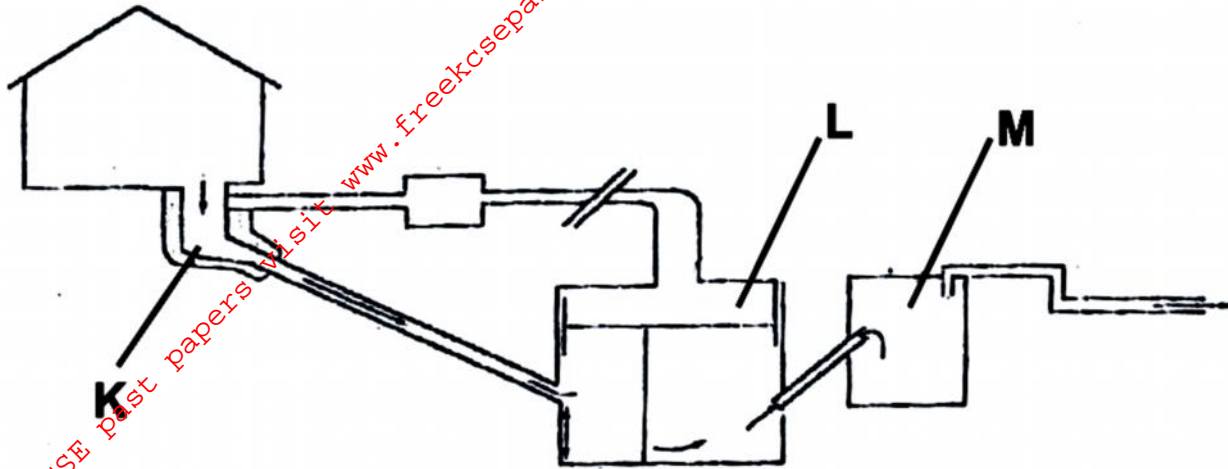
(c) State two maintenance practices carried out on tool I.

(2 mks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

23. Study the diagram of a biogas plant below and answer the questions that follow.



(a) Name the main component of biogas that is trapped in part L. (1 mk)

\_\_\_\_\_

(b) Give the name and use of the materials deposited in the part labeled M (1 mk)

\_\_\_\_\_

(c) What is the component K in the biogas digester? (1 mk)

\_\_\_\_\_

(d) State two uses of biogas on the farm. (2 mks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

**SECTION C (40 MARKS)**

**Answer any two questions in this section**

24. (a) State the advantages of using a disc plough over a mouldboard plough. (8 mks)

(b) Describe the procedure of constructing a barbed wire fence. (12 mks)

25. (a) Explain the factors that influence the choice of building materials. (10 mks)

(b) Describe the effects of parasites on livestock. (10 mks)

26. (a) Describe the lifecycle of pork tapeworm (*Taenia solium*). (10 mks)

(b) Describe the routine maintenance practices carried out on a tractor. (10 mks)

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