

Name..... Index No.....
School..... Candidate's sign.....
Date.....

443/2
AGRICULTURE
Paper 2
MARCH/APRIL 2015
TIME: 2 Hours

CROSS COUNTRY EXAMS 2015

Kenya Certificate of Secondary Education (K.C.S.E)

443/2
AGRICULTURE
Paper 2
TIME: 2 Hours

INSTRUCTIONS TO CANDIDATES.

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

FOR EXAMINER'S USE ONLY.

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 19	30	
B	20 - 23	20	
C		20	
		20	
TOTAL SCORE		90	

This paper consists of 12 printed pages. Candidates should check the question paper to

Ensure that all the pages are printed as indicated and no questions are missing.

SECTION A (30 MARKS)

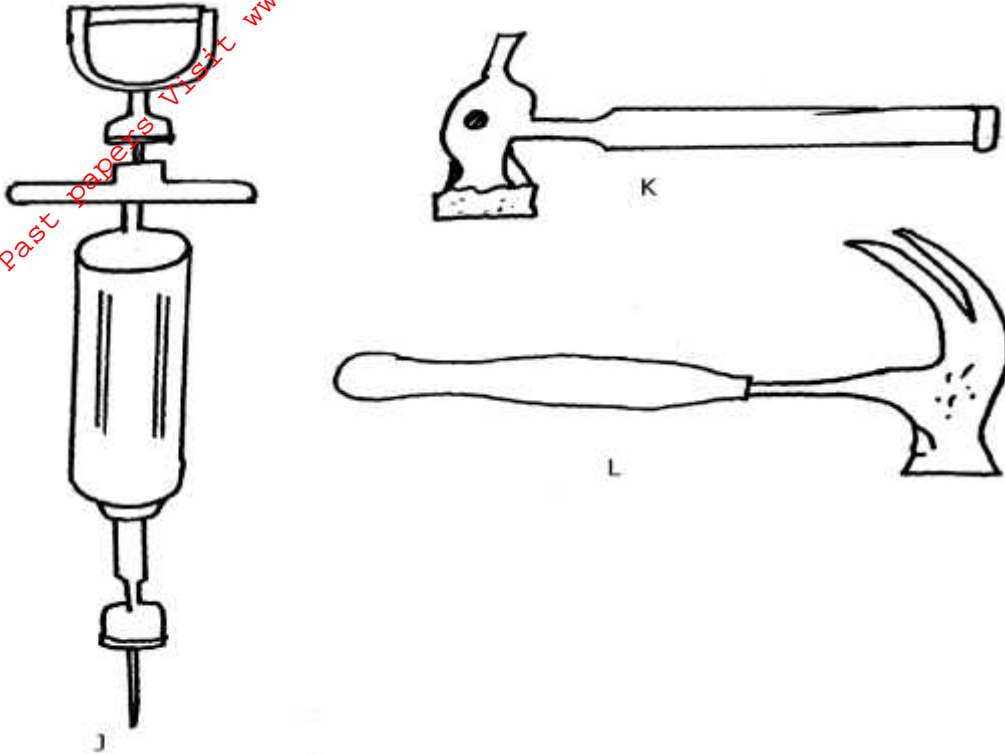
Answer ALL the questions in this section in the spaces provided.

1. List **one** tool used in tightening barbed wire when constructing a fence. (½mk)
2. State **four** reasons for maintaining wheelbarrow in the farm. (2mks)
3. State any **four** reasons for castrating a goat. (2mks)
4. a) i) Name any **two** dairy goats that can be reared by a farmer. (1mk)
b) State any **six** practices carried out to improve the production of low yielding dairy goat. (3mks)
5. a) Distinguish between inbreeding and line breeding. (1mk)
b) State any **three** importance of cross breeding. (1½mks)
6. a) Explain the meaning of the term intermediate host as used in livestock production. (½mk)
b) State the intermediate host of liver fluke. (½mk)
7. State any **four** ways of improving the work output of draught animal. (2mks)
8. Explain any **four** reasons why bees swarm away. (2mks)
9. State any **four** factors that may lower the quality of honey. (2mks)
10. State any **three** factors that may cause early weaning in heifers. (1½mks)
11. Give **one** function of chalazae. (½mk)
12. State **four** factors that may cause stress in layers. (2mks)
13. State **four** ways of stimulating a lactating cow. (2mks)
14. Give **two** hormones essential in the process of milk production from a lactating cow. (1mk)
15. State **four** predisposing factors in mastitis in a high yielding cow. (2mks)
16. State any **two** uses of phosphorus in livestock nutrition. (1mk)
17. Give **four** maintenance practices of a tractor battery. (2mks)

SECTION B. (20 MARKS)

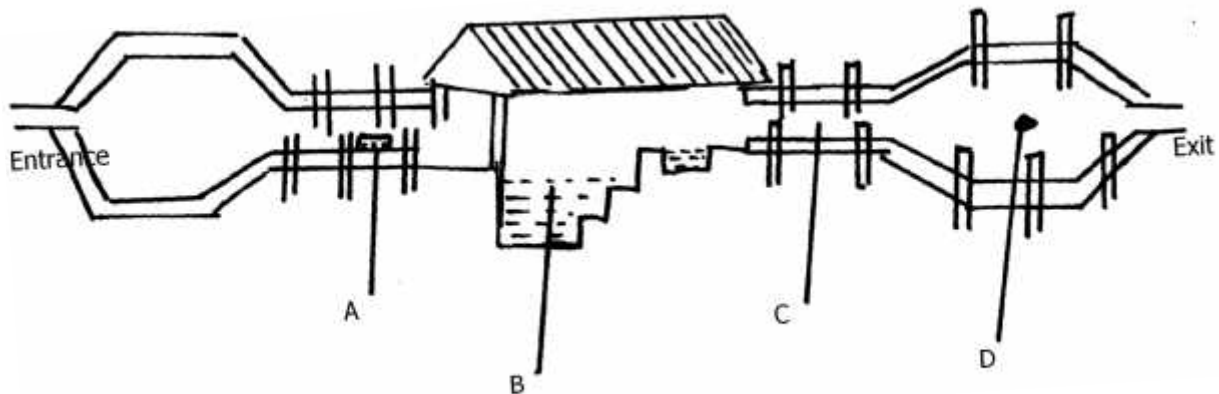
Answer ALL the questions in this section in the spaces provided.

20. Identify the tools and equipment drawn below.



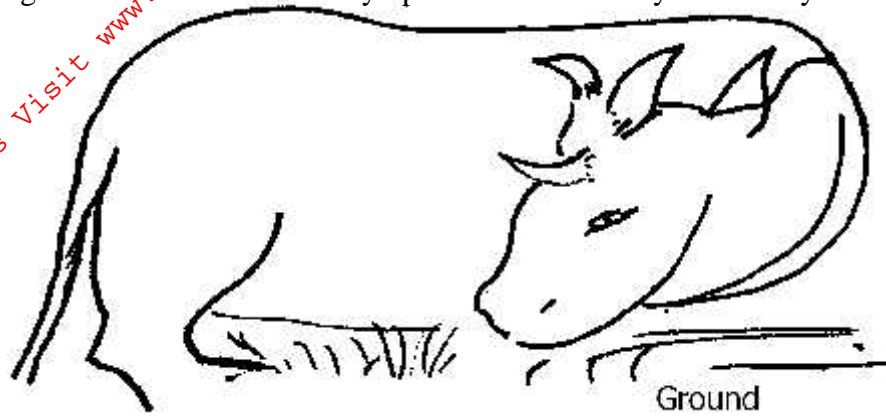
- i) Identify tools/equipment J, K and L (1½ mks)
- ii) State the use of J and K (2mks)
- iii) Give **one** functional similarity between K and L. (1mk)
- iv) Give **two** maintenance practices that should be carried out in too J. (2mks)

21. The diagram below shows parts of a plunge dip. Study the diagram and answer the questions that follow.



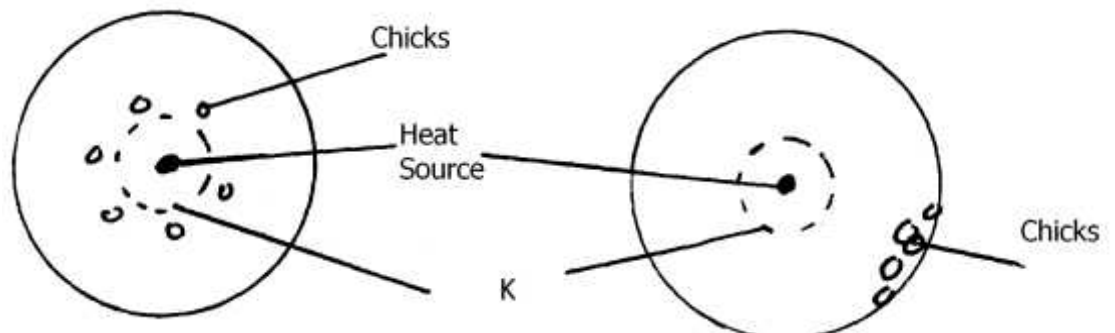
- i) Name parts A, B,C and D. (2mks)
- ii) Give **two** reasons why cattle are held for sometime in part C. (2mks)
- iii) State **four** maintenance practices carried out on part D. (2mks)

22. The following diagram illustrates a disease symptom in cattle. Study it carefully and answer the questions that follow.



- a) Identify the disease in cattle with the shown symptoms. (1mk)
- b) Give **two** other causes of the disease named in (a) above. (2mks)
- c) Apart from the symptom shown on the diagram, state other two symptoms of the disease. (2mks)

23. Study the following diagram showing the behaviour of chicks with temperature variations in a brooder.



- a) Identify part K. (½ mk)
- b) Describe the behaviour of chicks in X and W (2mks)

SECTION C. (40 MARKS)

Answer any two questions from this section in the spaces provided.

24. a) Describe the uses of the various tools used in the fixing of barbed wire fence on the posts. (6mks)
- b) Outline **eight** uses of fences in the farm. (8mks)
- c) Describe the functional differences between mouldboard and disc plough. (6mks)
25. a) Outline **three** factors considered in the siting of a fish pond. (3mks)
- b) Describe **seven** management practices carried out on a fish pond to maximize the harvest. (7mks)
- c) Using the heat method, describe the procedure of processing honey. (10mks)
26. a) Describe the life cycle of a two-host tick. (6mks)
- b) Describe how physical methods are used to control ticks in a herd of cattle. (4mks)
- c) Describe the digestion of grass in the rumen of a ruminant animal. (10mks)