

Name: Index no

School: Candidate's sign

Date:

443/2
AGRICULTURE
PAPER 2
MARCH/APRIL 2011
TIME: 2 HOURS

BUTERE EAST ZONE JOINT EXAMINATION

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

Agriculture
Paper 2

INSTRUCTIONS TO CANDIDATES:

- Write **your name and Index Number** in the spaces provided.
- This paper consists of three section **A, B and C**
- Answer **ALL** the questions in section **A and B**
- Answer **any two** questions in section **C**.
- Answers should be written in the spaces provided in this booklet.

For Examiner's Use Only:

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-20	30	
B	21-25	20	
C		20	
		20	
	TOTAL	90	

This paper consists of 8 printed pages. Candidates should check to ascertain that all papers are printed as indicated and that no questions are missing

SECTION A (30 MARKS)

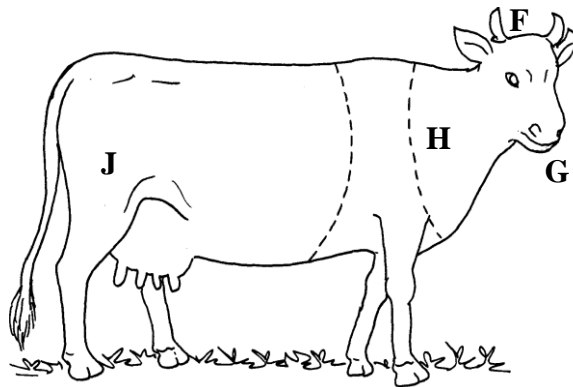
Answer ALL the questions in this section in the spaces provided.

1. Differentiate between a **parasite** and a **pathogen**. (1mk)
2. State **four** factors considered when selecting an implement for primary cultivation. (2mks)
3. Write down any **two** practices you must do incase a calf is not breathing well immediately after calving. (1mk)
4. In records it shows that a rabbit was served on 27th September 2009. What date will it give birth. (½ mk)
5. Name the tools used f or the following management practices in livestock. (1mk)
 - i) Deworming animals.....
 - ii) Ear Notching.....
6. Name **two** light breeds of poultry. (1mk)
7. Mention **four** reasons for treating water before use. (2mks)
8. State **four** reasons for dehorning livestock. (2mks)
9. Give the reasons for carrying out the following practices in sheep. (1mk)
 - i) **Crutching**.....
 - ii) **Raddling**.....
- b) Give **four** reasons for castrating livestock. (2mks)
10. Give **two** reasons why it is advisable to separate ewes when they approach lambing. (1mk)
11. Give the functional difference between the following tools. (2mks)
 - a) Stock and die and pipe cutter
 - b) Ball pen hammer and claw hammer.
12. Give **two** reasons why bees swarm. (1mk)
13. Give **two** reasons why animals are held in the drainage yard of a cattle dip after dipping. (1mk)
14. Name **two** methods used in caponization. (1mk)
15. Outline **four** qualities of a good creep feed. (2mks)
16. Mention **four** disadvantages of embryo transplant in cattle. (2mks)
17. State **four** features of an ideal calf pen. (2mks)
18. a) State **three** reasons for treating timber used for fencing. (1½ mk)
b) Give any **two** wood of preservatives (1mk)
19. Differentiate between **epistasis** and **heterosis** as used in livestock breeding. (1mk)
20. Explain the meaning of the following terms. (1mk)
 - a) Starch equivalent. (S.E)
 - b) **Crude fibre (C.F)** (1mk)

SECTION B (20 MARKS)

Answer All questions in this section in the spaces provided.

21. Below is an illustration of a cow. Study it carefully then answer the questions that follow;



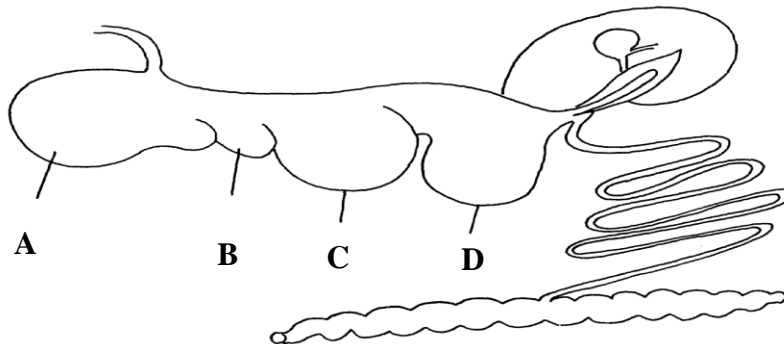
a) On the illustration mark with letters indicated in brackets where; (2mks)

- i) Branding should be done (B)
- ii) Vaccination should be carried out (V)
- iii) Body temperature should be taken (T)
- iv) Mastitis infection may occur (M)

b) Name parts of the animal labeled (2mks)

F, G, H and J

22. The following is an illustration of the digestive system of a ruminant.



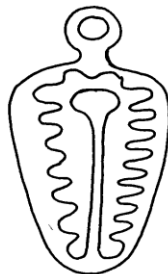
a) Name the parts labelled A to D (2mks)

A, B, C and D.

b) Name the part of the system illustrated where microbial activities takes place. (½ mk)

c) State **two** microbial activities that take place in the part named in (b) above. (2mks)

23. Below is an illustration of an internal parasite in livestock.



a) Identify the parasite..... (1mk)

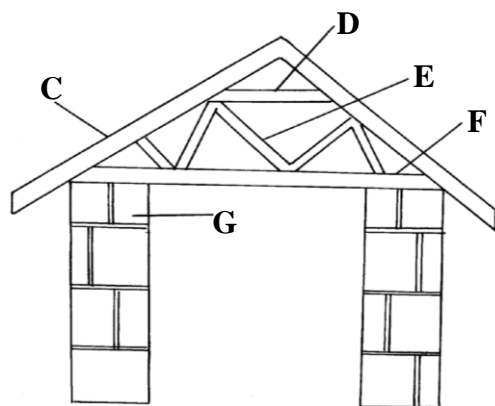
b) Name **one** final host for the parasite..... (1mk)

c) Name the intermediate host for the parasite..... (1mk)

d) State **two** measure used to control the parasite. (2mks)

24. Using pearson's square method, calculate how maize meal (8 % CP) and Soya bean meal (43 % CP) would be required to prepare a 100kg ration of the mixture containing 15 % CP. (4mks)

25 Study the diagram of the farm structure below and answer the questions that follow.



- a) Identify the structure drawn above..... (1mk)
 b) Name the part labeled C, D and E. (1½ mks)

SECTION C (40 MARKS)

Answer any TWO question ns from this section in the spaces provided after questions 28.

26. Discuss management of fish under the following sub-heading. (20mks)
- Stocking Fish pond.
 - Feeding
 - Harvesting.
 - Processing.
 - Preservation.
27. a) Explain the factors a farmer needs to consider before siting a farm structure on his farm. (8mks)
 b) Outline the desirable features of good grain store. (4mks)
 c) Describe the uses of farm fences in promotion of a agriculture. (8mks)
28. a) Describe the life cycle of a two host tick (8mks)
 b) Give **two** examples of a three host tick. (2mks)
 c) Explain **five** predisposing factors of livestock disease. (5mks)
 d) Outline the procedure that should be followed in administering liquid de-worming drugs to steer.