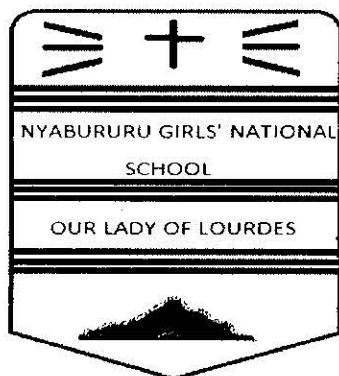


NAME .....CLASS ..... C/NO .....

Signature .....



**FORM 4 AGRICULTURE 443/2**  
**FEBRUARY SERIES 2016**  
**TIME: 2 HOURS**

<i>Date done</i>	
<i>Invigilator</i>	
<i>Date returned</i>	
<i>Date revised</i>	

**Instructions**

- Write your name, class and class number and sign.
- This paper consists of three sections: A, B and C.
- Answer all questions in sections A and B and any two questions from section C.
- Answer should be written

**FOR EXAMINER'S USE ONLY**

SECTION	QUESTIONS	MAX. SCORE	CANDIDATE'S SCORE
A	1 – 15	30	
B	16 - 19	20	
C	20	20	
	21	20	
	22	20	
	<b>TOTAL SCORE</b>	<b>90</b>	

**SECTION A (30 MARKS)**  
**Answer all questions in the spaces provided.**

1. Distinguish between crutching and ringing in sheep production. (2mks)
  
2. Define the term hybrid vigour as used in livestock production. (1mk)
  
3. State four functions of vitamins to animals. (2mks)
  - (i)
  - (ii)
  - (iii)
  - (iv)
  
4. State four factor that affect feed intake in animal. (2mks)
  - (i)
  - (ii)
  - (iii)
  - (iv)
  
5. Name four maintenance practice carried out on a hand saw to improve its efficiency. (2mks)
  - (i)
  - (ii)
  - (iii)
  - (iv)

6. Name the intermediate host for each of the following livestock parasites.

(a) Liver fluke (1mk)

(b) Pork tapeworm (1mk)

7. State four effects of external parasite in cattle (2mks)

(i)

(ii)

(iii)

(iv)

8. Name four exotic dairy breeds of goats. (2mks)

(i)

(ii)

(iii)

(iv)

9. State two roles of production ration in livestock (1mk)

(i)

(ii)

(b) Suggest two reasons why ewes may abandon their lambs. (1mk)

(i)

(ii)

10. State four reasons for feeding calves on high quality feeds from birth to weaning (2mks)

- (i)
- (ii)
- (iii)
- (iv)

11. (a) Name two farm structures used to control livestock parasites. (1mk)

- (i)
- (ii)

(b) State two roles of calcium in the body of dairy cattle. (1mk)

- (i)
- (ii)

12. (a) State two importance of dehorning cattle. (1mk)

- (i)
- (ii)

(b) Name two types of concentrate in livestock nutrition. (1mk)

- (i)
- (ii)

13. Give four reasons for treating timber in the farm (2mks)

- (i)
- (ii)
- (iii)

(iv)  
14. (a) Name four factors that affect quality of honey. (2mks)

(i)

(ii)

(iii)

(iv)

(b) Give a reason why barbed wire fence is not recommended in grazing field of sheep. (1mk)

15. Name four cycles of a four-stroke engine. (2mks)

(i)

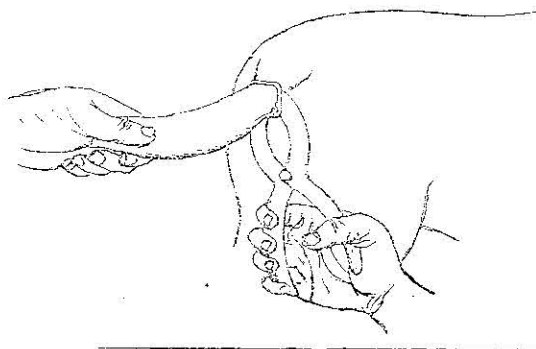
(ii)

(iii)

(iv)

**SECTION B (20 MARKS)**  
**Answer all questions in the spaces provided.**

16. Study the diagram below and answer the questions that follow.



(a) Identify the above operation.

(1mk)

(b) Name the tools being used.

(1mk)

(c) Give three reasons why the above operation is practiced,

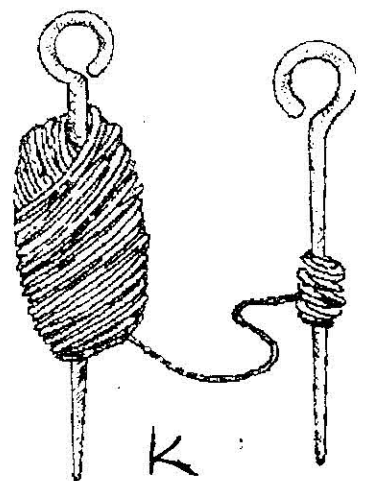
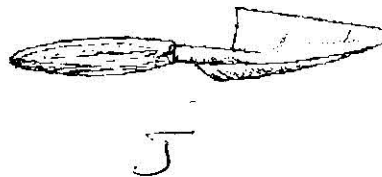
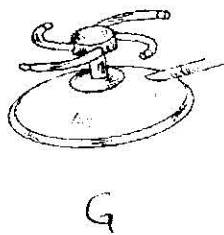
(3mks)

(i)

(ii)

(iii)

17. The diagrams below are various farm tools. Study them carefully and answer the questions that follow.



(a) Identify the tools labeled:

(2mks)

G –

H –

(b) State the use of the tools labeled:

(2mks)

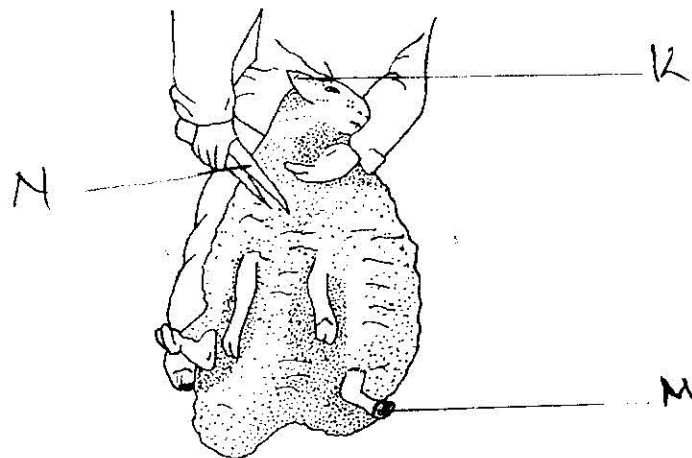
J –

K –

(c) Name one nutritional disorder disease controlled using the tool labeled H.

(1mk)

18. The following illustration shows an activity carried out by a sheep farmer.



(a) Identify the <sup>Practise</sup> ~~operation~~ illustrated above.

(1mk)

(b) List two precaution to observe when carrying out above operation

(2mks)

(i)

(ii)

c) Identify the tool labelled N (1mk)

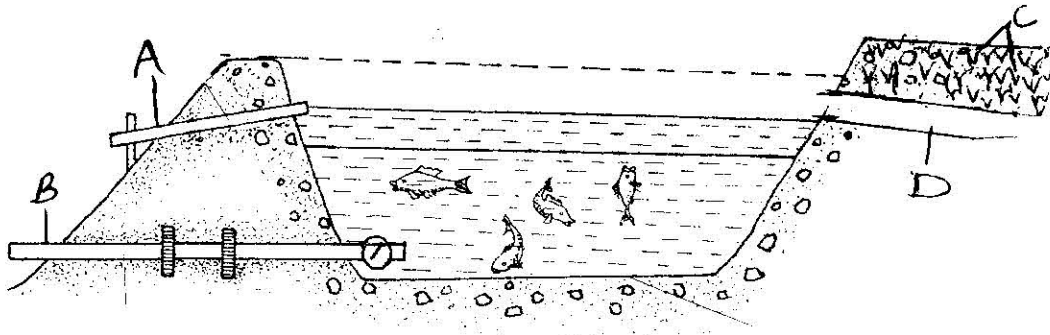
(d) Outline other operation carried out on parts labelled.

(2mks)

K

M

19. Study the diagram of an illustration of a fish pond..



(a) Name the part labeled A and B.

(2mks)

A –

B –

(b) State the function of the parts labeled C and D.

(2mks)

C –

D –



- (c) State the <sup>reason</sup> for adding farm yard manure in the fish pond (1mk).

**SECTION C (40 MARKS)**

20. (a) Describe the life cycle of a one –host tick in livestock health. (10mks)
- (b) Describe mastitis disease under the following subheadings:-
- |       |                        |        |
|-------|------------------------|--------|
| (i)   | Predisposing factors   | (3mks) |
| (ii)  | Causal agent           | (1mk)  |
| (iii) | Symptoms               | (4mks) |
| (iv)  | Prevention and control | (2mks) |
21. (a) Describe the general factors to consider when selecting a livestock breed. (10mks)
- (b) Describe artificial rearing of dairy calf from birth to weaning. (10mks)
22. (a) Explain the factors that influence work output of draught animal. (12mks)
- (b) Describe general methods of controlling livestock diseases. (8mks)

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