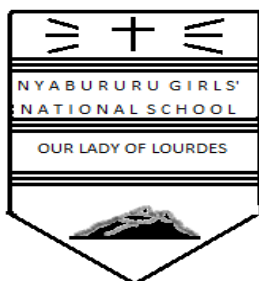


NAME..... ADM. No.....CLASS.....
SIGN.....INDEX No.....



DATE DONE.....

INVIGILATOR.....

DATE RETURNED.....

DATE REVISED.....

Kenya Certificate of Secondary Education

AGRICULTURE 443/2

PAPER 2

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- Write your name and index number in the spaces provided above.
- This paper consists of **THREE** sections: A , B and C
- Answer **ALL** the questions in sections A and B and any **TWO** questions in section C
- ALL answers **MUST** be written in the spaces provided.
- This paper consists of 6 printed pages.
- Candidates should check to ensure that all pages are printed as indicated and no question is missing

FOR EXAMINER'S USE ONLY

	Questions	Maximum score	Candidate's score
A	1 - 20	30 marks	
B	21 - 23	20 marks	
C	24 - 26	40 marks	
Total		90	

NAME..... ADM. No.....CLASS.....
SIGN.....INDEX No.....

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided

1. Give four differences in digestion between a sheep and a pig. (2marks)

2. State two reasons for carrying out egg candling before incubation (1mark)

3. Give three symptoms of liver fluke attack in livestock (1 ½ marks)

4. Give one function for each of the following parts of the bull's reproductive system. (1 ½ marks)
 - (a) Vas deferens

 - (b) Epididymis

 - (c) Prepuce

5. State three maintenance practices of farm stores. (1 ½ marks)

6. Give two reasons of providing a lambing pen for ewes during parturition. (1mark)

NAME..... ADM. No.....CLASS.....

SIGN.....INDEX No.....

7. State four signs of heat in a rabbit doe. (2marks)
8. Name a tool that is used for weeding in a nursery or in carrot fields. (½ mark)
9. Differentiate between swarming and absconding in apiculture. (1mark)
10. Give two reasons for providing female livestock extra high quality feed 2-3 weeks before and after mating. (1mark)
11. State four factors within an animal that determines the amount of water intake by an animal. (2marks)
12. What is the role of a damp proof course in a building? (1mark)
13. Give two physical differences between the large white and Landrace breeds of pigs. (2marks)
14. (a) Name two common vectors of protozoan diseases in livestock. (1mark)

NAME..... ADM. No.....CLASS.....

SIGN.....INDEX No.....

(b) Name one protozoan disease that is not vector – borne. (1mark)

15. Name two pairs of livestock tools that must be always used together. (2marks)

16. Give four roles of additives in livestock feed. (2mark)

17. State four conditions of a breeding boar that may lead to its culling. (2marks)

18. (a) What is dry matter as used in livestock nutrition? (1mark)

(b) State two methods of computing livestock ration. (1mark)

19. Give two methods of extracting wax from honey combs. (1mark)

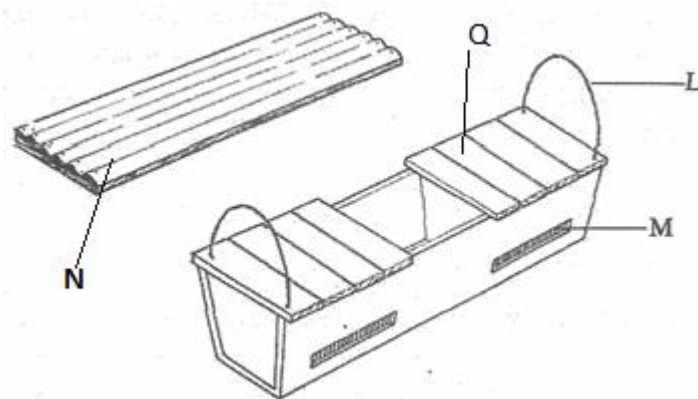
20. (a) Name the tool used to take the internal temperature of an animal. (½ mark)

(b) From which part of an animal's body is the temperature taken? (½ mark)

SECTION B (20 MARKS)

Answer all questions in this section in the spaces provided

21. Below is a diagram of a bee hive



(a) Name the type of the bee hive illustrated above (1mark)

(b) Name the parts labeled L, M, Q and N (2marks)

L
M
Q
N

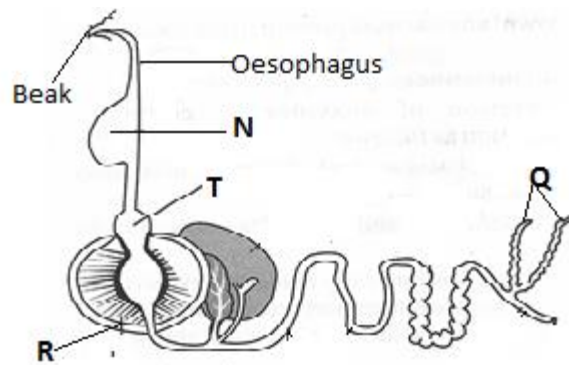
(c) Name the structure used to ensure that honey combs and brood combs are found in different chambers in the hive (1mark)

(d) What is the advantage of suspending the beehive using the part labeled L. (1mark)

22. The diagram below shows the parts of the poultry's digestive system. Use it to answer the questions that follow.

NAME..... ADM. No.....CLASS.....

SIGN.....INDEX No.....



(a) Name the parts labeled Q, N, S, T and R. (2marks)

Q

N

T

R

(b) State the role of the part labeled Q. (1mark)

(c) Give two structural adaptations of R to its functions. (2marks)

23. A dairy farmer is to prepare a dairy ration containing 18% DCP. The farmer has two feedstuffs namely maize bran containing 8% DCP AND soya bean meal containing 36% DCP

(a) Using the pearson's square method, calculate the amount of each feedstuff the farmer would require to prepare a 150kg dairy ration. (4marks)

NAME..... ADM. No.....CLASS.....

SIGN.....INDEX No.....

- (b) State two factors to consider when choosing feedstuffs for preparing a livestock ration. (1mark)

SECTION C (40 MARKS)

Answer only two questions in this section in the spaces provided

24. (a) Explain the importance of livestock rearing in Kenya's economy. (10marks)
- (b) Explain the maintenance practices of a fish pond. (10marks)
25. (a) Explain the common predisposing factors of livestock diseases. (14 marks)
- (b) Outline the procedure of hand spraying cattle to control ticks. (6marks)
26. (a) Describe the life cycle of liver flukes. (12marks)
- (b) Describe the preparations carried out before farrowing in pigs. (8marks)