



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

PRE-MOCK EXAMINATIONS 2022

FORM FOUR

AGRICULTURE

Paper 2

443/2

JUNE 2022 – TIME: 2Hours

Name: _____

Adm No: _____

Class: _____

Date: 27/ 06 /2022.

INSTRUCTION TO CANDIDATES

- Write your **name, admission number and class** in the spaces provided above.
- This paper consists of **THREE** sections; **A, B and C**.
- Answer **All** the questions in section **A and B** in the spaces provided and any **TWO** questions from section **C** in the answer sheet provided

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 - 19	30	
B	20 - 23	20	
C		20	
		20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all the question in this section in the spaces provided.

1. Define the term quarantine in livestock production (1 mk)

2. a) Give **two** functions of vitamins in livestock production (1 mk)

- b) State **four** water soluble vitamins. (2 mks)

3. List **two** methods that a dairy farmer can use in breeding. (1 mk)

4. Give **two** values of pheromones to bees. (1 mk)

5. a) Define the term notifiable disease in cattle. (1 mk)

b) Name any **two** notifiable diseases in cattle. (1 mk)

6. Give **two** reasons of washing a cow's udder before milking (1 mk)

7. Give **four** factors that determine the nutritional requirements in cattle. (2 mks)

8. State **two** uses of pipe wrench. (1 mk)

9. State **three** advantages of a spray race over plunge dip. (1½mks)

10. State **three** symptoms of ectoparasites in poultry production (1½mks)

11. Give **two** reasons of housing calves singly . (1mk)

12. Name the breed of rabbit with the following characteristics: (2 mks)

(i) White body and red eyes

(ii) White body with one or more of these parts black: ears, paws, and tail.

13. State **four** essentials of flaying. (2 mks)

14. Mention **four** pre-disposing factors of scours in calves. (2 mks)

15. Differentiate between crutching and raddling. (2 mks)

16. Give **four** advantages of embryo transplant technology.

(2 mks)

17. State **two** advantages of using seine nets over the hook and line in harvesting fish.

(1 mk)

18. State **two** importance of tooth clipping in pigs.

(1 mk)

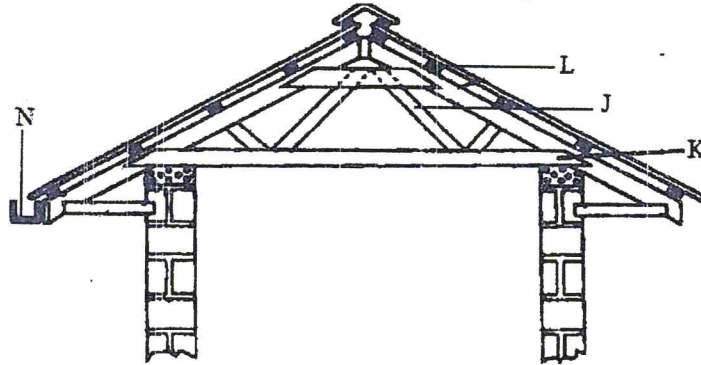
19. Give **four** factors that make mud walls to be undesirable .

(2 mks)

SECTION B (20 MARKS)

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

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



(a) Identify the parts labeled: J, K, L and N. (2mks)

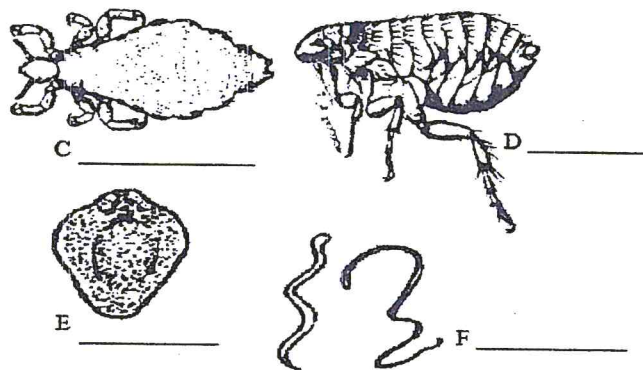
J _____ K _____

L _____ N _____

(b) State **two** uses of parts labeled L. (2mks)

(c) State **two** reasons why it is important to have the structure labelled N at the edge of the roofing materials. (2mks)

21. (a) (i) Identify each of the parasites of livestock shown below and answer the questions that follow: (2 mks)



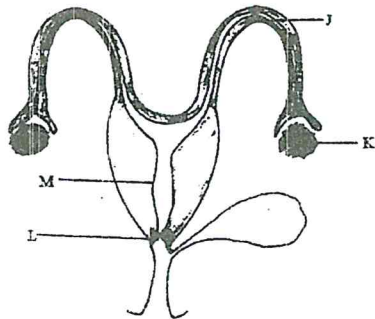
(ii) Give **two** categories of the above parasites.

(2mks)

(b) List any **four** harmful effects of the parasites E and F in livestock.

(2mks)

22. The diagram below shows the reproductive system of a cow. Study it carefully and answer the questions that follow.



(a) (i) Name the parts labeled L and M.

(1 mk)

L _____ M _____

(ii) State the functions of each of the parts labeled J and K.

(1 mk)

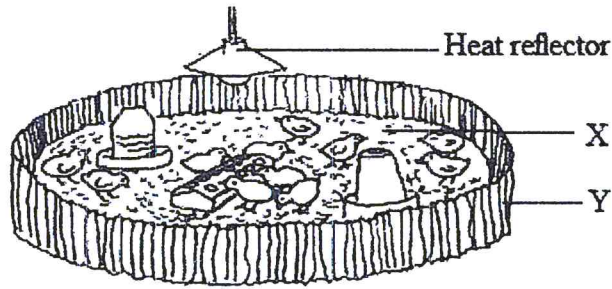
J _____

K _____

(b) State **two** signs of parturition in cows

(2 mks)

23. The diagram below represents sections through an artificial brooder.



(a) Give **two** uses of the part labeled X.

(1 mk)

(b) Name **two** suitable materials to use for part labeled X

(1mk)

(c) Give the use of the apart labeled Y.

(2 mks)

(d) List **two** advantages of natural brooding of chicks.

(2 mks)

SECTION C (40 MARKS)

Answer ANY TWO questions from this section in the spaces provided after question 26.

24. (a) State and explain the various factors that should be considered when siting farm structures. (10 mks)
- a) State **five** benefits of live fences in the farm. (5 mks)
- b) Describe **five** advantages of artificial insemination in livestock breeding. (5 mks)
25. (a) (i) State any **five** advantages of using animal power in the farm. (5mks)
- (ii) State **five** factors to be considered in order to achieve optimum animal power in the farm. (5 mks)
- (b) (i) Outline the maintenance practices carried out on a water cooled engine system in a tractor. (6 mks)
- (ii) State **four** roles played by engine oil in a tractor. (4 mks)
26. (a) Discuss *Brucellosis* disease under the following sub-headings:
- (i) Causal organism. (1 mk)
- (ii) List **two** livestock attacked by brucellosis. (2 mks)
- (iii) Symptoms of attack. (4 mks)
- (iv) Control measures (4 mks)
- (b) (i) Explain the causes of swarming in bees. (6 mks)
- (ii) Name and explain the uses of **three** materials collected by bees. (3 mks)

Handwriting practice lines consisting of 20 horizontal lines.

Blank lined paper with horizontal ruling lines.