



# MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

PRE-MOCK EXAMINATIONS 2022

FORM FOUR

443/2

**AGRICULTURE**

**Paper 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	
<b>TOTAL SCORE</b>		<b>90</b>	

**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)

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

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

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

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

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

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

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

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

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

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9. State **three** advantages of a spray race over plunge dip. (1<sup>1</sup>/<sub>2</sub>mks)

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10. State **three** symptoms of ectoparasites in poultry production (1<sup>1</sup>/<sub>2</sub>mks)

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

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

(i) White body and red eyes

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

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

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

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

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16. Give **four** advantages of embryo transplant technology. (2 mks)

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17. State **two** advantages of using seine nets over the hook and line in harvesting fish. (1 mk)

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18. State **two** importance of tooth clipping in pigs. (1 mk)

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19. Give **four** factors that make mud walls to be undesirable . (2 mks)

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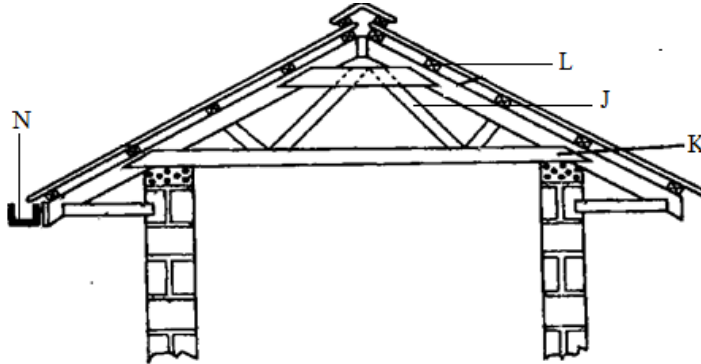
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**SECTION B (20 MARKS)**

**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)

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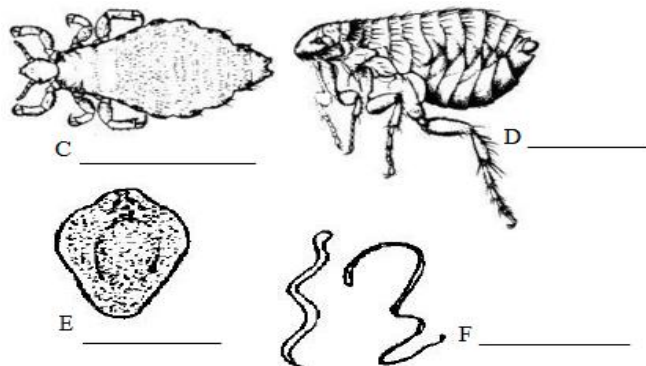
(c) State **two** reasons why it is important to have the structure labelled N at the edge of the roofing materials. (2mks)

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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)

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(b) List any **four** harmful effects of the parasites E and F in livestock. (2mks)

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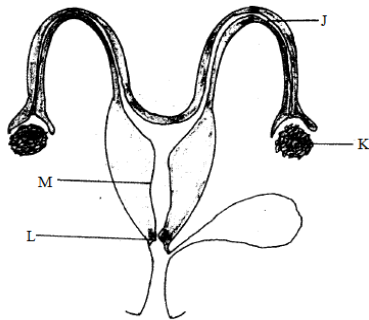


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22. The diagram below shows the reproductive system of a cow. Study it carefully and answer the questions that follow.



(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 \_\_\_\_\_

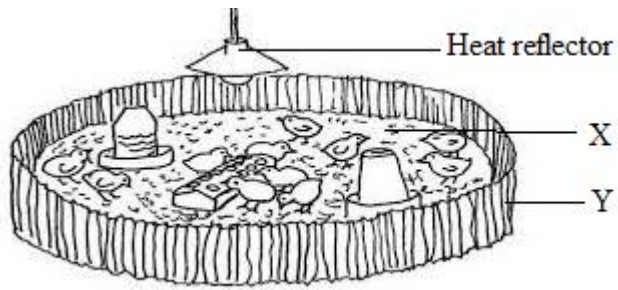
(b) State **two** signs of parturition in cows (2 mks)

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



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

(1 mk)

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

(1mk)

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

(2 mks)

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

(2 mks)

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**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)

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