NYAMBARIA HIGH SCHOOL

END OF YEAR EXAMS

Paving Way For Kenya Certificate of Secondary Education Success

Name …….. Admission no…….
Candidate's Signature…… Date…….

FORM 3
AGRICULTURE
PAPER 2
TIME: 2Hours

INSTRUCTIONS TO CANDIDATES:

- *Write your **name** and **index number** in the spaces provided.*
- *Sign and write the date in the spaces provided above*
- *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	1-17	30	
B	18-21	20	
C	22	20	
	23	20	
	24		
	TOTAL	**90**	

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SECTION A (30 MARKS)

Answer all the questions in this section

1. State **two** ways in which digestion of food in pigs differs from that in ruminants. **(2mks)**

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2. State **two** observable differences on the head between the large white and landrace pig breeds **(2mks)**

Large White	Landrace

3. Name **four** diseases transmitted by ticks. **(2mks)**

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4. What is nuptial flight? **(1mk)**

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5. Name the breed of rabbit with the following characteristics:

(i)White body and red eyes. **(½mk)**

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(ii)White body with one or more of the following parts black: ears, nose, paws and tail. **(½mk)**

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

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7. State **four** advantages of a spray race over a plunge dip. **(2mks)**

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8. (a) State the use of an oil stone. **(½mk)**

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(b) Name the appropriate saw used to carry out each of the following operations.

(i) Cutting timber across grains. **(½mk)**

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(ii) Cutting timber along grains. **(½mk)**

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(iii) Cutting unwanted branches from fruit tree. **(½mk)**

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9. State any **two** disadvantages that may arise from inbreeding. **(2mks)**

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10. State **two** advantages of natural mating. **(1mks)**

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11. State **two** reasons for debeaking chicken **(1.mks)**

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12. Mention **two** reasons for flushing ewes. **(1mk)**

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13. Give **two** ideal conformation features of beef cattle. **(2mks)**

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14. State **two** reasons for culling breeding sows. **(2mks)**

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15. Mention **four** qualities of colostrum that makes it most ideal for newborn calves. **(2mks)**

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16. State **four** factors to consider when choosing feedstuff to use in the farm. **(2mks)**

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17. Mention **two** importance of keeping livestock healthy. **(2mks)**

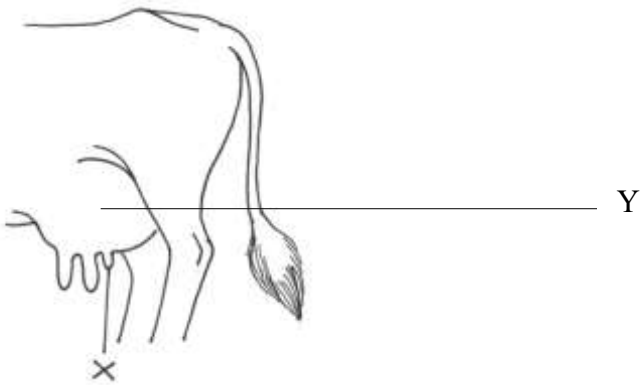
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SECTION B (20 MARKS)

Answer all the questions in this section.

18. Use the diagram below to answer the questions that follow.



(i)Identify the operation that should have been carried out on the teat labeled **X**. **(½mk)**

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(ii)Name **two** tools/equipment used in the above operation. **(1mk)**

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(a) State **two** advantages of carrying out the above operation. **(2mks)**

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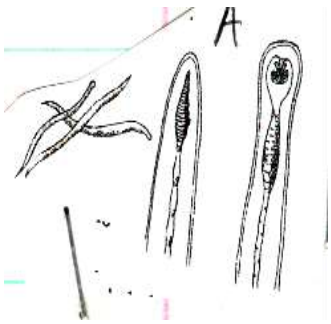
(b) Mention any **three** predisposing factors of the disease that affects the part labeled Y. **(1½ mks)**

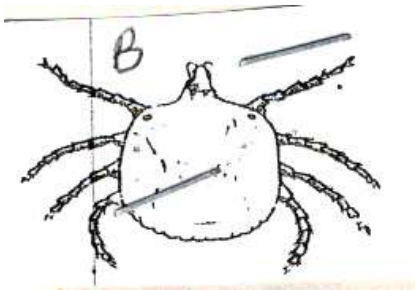
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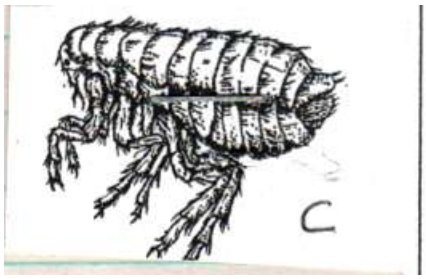
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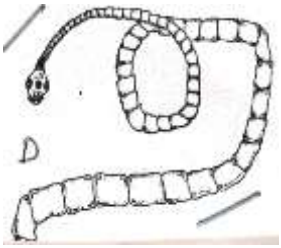
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19. Below are livestock parasites A, B, C and D. Use them to answer the questions that follow.









(i)Identify the parasite stating where they are found. **(2mks)**

Identity	**Where found in animals**
A	
B	
C	
D	

(ii)State **two** methods of controlling parasite B. **(1mk)**

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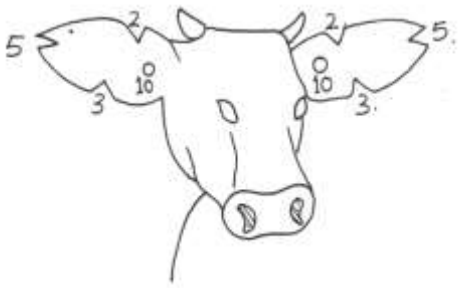
(iii) State **four** effects of parasite A in livestock. **(2mks)**

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20. A ration containing 20% DCP is to be prepared using ground maize and fish meal. Given that ground maize contains 7% DCP and fish meal contains 62% DCP, calculate the amount in kilograms of each feedstuff required to prepare 100 kg of the feed. **(5mks)**

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21. The diagram below illustrates a method of identification in livestock production. Use it to answer the questions that follow.



i. Name the type of identification illustrated above. **(1mk)**

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ii. Give the identification number of the animal illustrated in the diagram above. **(1mk)**

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iii. Using diagrams, illustrate how you can identify animal number 24 and 36 using the above method. **(2mks)**

(b) If a sow was successfully served on 27th September 2021, state the date she is likely to h**ave farrowed.** **(1mk)**

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SECTION C (40 marks)

Answer any two questions in this section in the spaces provided.

22. (a) Give **four** differences between a crosscut saw and tenon saw **(4 mks)**

(b) State **six** maintenance practices for wheelbarrow. **(6 mks)**

(c) State **ten** advantages of artificial insemination **(10mks)**

23. (a) Describe fish farming under the following sub-headings:

(i) Siting a fish pond.
(2mks)

(ii) Harvesting. **(2mks)**

(iii)Methods of preservation for fish. **(3mks)**

(iv) Importance of liming the pond. **(3mks)**

(b) Describe bee keeping under the following sub-headings.

(i) Siting the apiary. **(3mks)**

(ii) List of pests and Diseases. **(4mks)**

(iii) Factors affecting quality of honey. **(3 mks)**

24.(a) Describe **six** factors considered in choosing materials for constructing farm structures. **(6mks)**

(b)Describe **seven** factors considered in siting farm structures. **(14mks)**

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