 **MARANDA HIGH SCHOOL**

**Kenya Certificate of Secondary Education**

**MOCK EXAMINATIONS 2022**

**443/2 Agriculture Paper 2**

**September, 2022 Time: 2 Hours**

**Name**: ………………………………………….…….…… **Adm** **No**: ………………

**Class**: ………………**Candidate’s** **Signature**: ………..…….. **Date: 9th September, 2022.**

**Time: 2.00-4.00 PM**

**INSTRUCTIONS TO CANDIDATES**

1. *Write your name, index number, admission number and class in the spaces provided.*
2. *Sign and write the date in the spaces provided above.*
3. *Answer* ***all*** *the questions in section A and B.*
4. *Answer any* ***two*** *questions in section C.*
5. *Answers should be written in the spaces provided.*
6. *This paper consists of* ***10*** *printed pages.*
7. *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

FOR EXAMINERS USE ONLY

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| --- | --- | --- | --- |
| **SECTIONS** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| **A** | **1-17** | **30** |  |
| **B** | **18-21** | **20** |  |
| **C** |  | **20** |  |
|  | **20** |  |
| **TOTAL** |  | **90** |  |

**SECTION A (30 MARKS)**

**Answer ALL the questions in the spaces provided.**

1. State **four** reasons why rabbit rearing is gaining a lot of popularity in Kenya. (2 marks)

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1. State the functions of the following tools.
2. Claw bar. (1 mark)

……………………………………………………………………………………………………….

1. Mortisegauge. (1 mark)

……………………………………………………………………………………………………….

1. State **four** characteristics of merino sheep. (2 marks)

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1. A Plumber was called to repair a water pipe that was leaking. List **four** tools that he would probably use.

(2 marks)

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1. State **four** factors that influence the pulse rate in animals. (2 marks)

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1. State **four** disorders that may result in animals due to mineral deficiency. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. State **four** effects of keds in sheep (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. Mention **four** factors that determine the amount of water required by an animal (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. Mention **four** reasons for steaming up in cattle. (2 marks)

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1. Differentiate between crutching and ringing in animals. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. State **four** characteristics of a poor layer. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. List **two** types of lambing management in sheep (1 mark) ……………………………………………………………………………………………………………………………………………………………………………………………………………………………..
2. State **four** disadvantages of battery cage system of rearing birds. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. State **four** advantages of the Kenya top bar hive (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. State **two** symptoms of black quarter on a carcass of cattle. (1 mark)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. Name **two** types of lubrication systems in a tractor. (1 mark)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………..

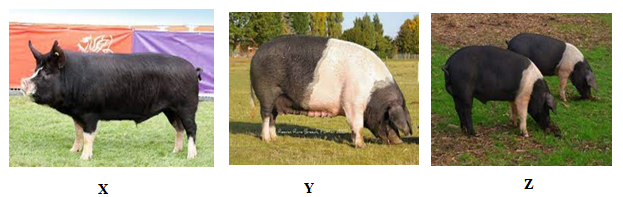
1. State **two** ways of controlling bloat in cattle. (1 mark)

………………………………………………………………………………………………………………..………………………………………………………………………………………………………………..

**SECTION B (20 MARKS)**

*Answer ALL the questions in the spaces provided.*

1. Use the diagrams below to answer the questions that follow.



a) State the names of the pig breeds above: (3 marks)

X……………………………………………………………………………………………………………

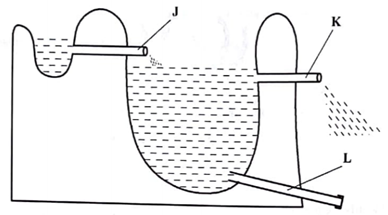
Y……………………………………………………………………………………………………………

Z…………………………………………………………………………………………………………….

b) State **two** differences between large white and landrace breeds of pigs. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. The diagram bellow shows the diagram of a fish pond. Use it to answer the questions that follow.



1. Name the parts labelled J and L. (2 marks)

J …………………………………………………………………………………………………………

L …………………………………………………………………………………………………………

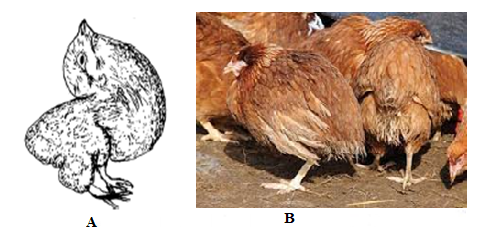
1. State the function of part labelled K (1 mark)

………………………………………………………………………………………………………………..………………………………………………………………………………………………………………..

1. Explain how fingerlings are introduced into a pond. (2 marks)

…………………………………………………………………………………………………………………………….………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..

1. Use the diagrams below to answer the questions that follow.



1. State the nutrient that chick A may be lacking. (1 mark)

………………………………………………………………………………………………………………

1. What other symptom can be shown by breeding birds lacking the nutrient name (a) above? (1 mark)

……………………………………………………………………………………………………………….

1. Chick B is suffering from a viral infection, name the disease. (1 mark)

………………………………………………………………………………………………………………

1. State **two** control measures of the disease indicated by chick B. (2 marks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………….

1. The diagram below shows the udder of a cow. Use it to answer the questions that follow.



1. Name parts L and M. (2 marks)

L …………………………………………………………………………………………………………….

M …………………………………………………………………………………………………………….

1. State the hormone responsible for milk let down. (1 mark)

………………………………………………………………………………………………………………

1. Define dry cow therapy. (1 mark)

………………………………………………………………………………………………………………...………………………………………………………………………………………………………………

1. Why milking should be done quickly and evenly. (1 mark)

………………………………………………………………………………………………………………

**SECTION C (20 MARKS)**

*Answer ANY TWO questions in the spaces provided after question 24.*

1. a) Explain **five** causes of livestock diseases. (5 marks)

b) Describe the life cycle of a beef tape worm. (10 marks)

c) Explain **five** reasons for inbreeding in livestock. (5 marks)

1. a) Describe **ten** factors considered when selecting breeding stock. (10 marks)

b) Compare the digestion between ruminants and non-ruminants (5 marks)

c) Explain the procedure of establishing a barbed wire fence. (5 marks)

1. a) Explain **ten** short service practices done on a tractor. (10 marks)

b) Describe the management of chicks in a brooder up to nine weeks. (10 marks) ……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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