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 FORM 4 ENTRANCE EXAMS 2023

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

**Candidate’s sign ……………………...............**

**Class………………………………………….…..………………………………**

**AGRICULTURE 443/2**

**FEBRUARY 2023**

**TIME: 2 HOURS**

***Kenya Certificate of Secondary Education (K.C.S.E.)***

**Agriculture**

**Paper 2**

**INSTRUCTIONS TO CANDIDATES:**

1. *Write your name and index number in the spaces provided above.*
2. *Sign and write the date of examination in the spaces provided above.*
3. *This paper consists of three sections A, B and C.*
4. *Answer* ***all*** *the questions in section A and B.*
5. *Answer any* ***two*** *questions in section C.*
6. *All answers should be written in the spaces provided.*
7. *This paper consists of 12 printed pages.*
8. *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
9. *Candidates should answer all the questions in English.*

***For Examiner’s Use Only:***

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION**  | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATES SCORE** |
| A |  1-18 | 30 |  |
| B | 19-22 | 20 |  |
| C |  | 20 |  |
|  | 20 |  |
|  | **TOTAL SCORE** | **90** |  |

**SECTION A (30 Marks)**

**Answer ALL the questions in this section.**

1. Name **four** breeds of rabbits. (2marks)

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1. List **four** functions of the rumen in the digestion of feed in

Ruminant animal (2marks)

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1. State **two** reasons why drenching is not an effective method of internal parasite control. (IMC) (1mark)

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1. Give the functional difference between a cross-cut saw and a rip saw. (1mark)

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1. State **two** functions of a queen in a colony (1mark)

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1. Give **two** reasons why rabbit hutches should be raised above the ground level.

 (1mark)

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1. State **four** disadvantages of natural mating as a method of breeding in dairy cattle. (2marks)

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1. Name **four** disorders in livestock caused by the lack of mineral nutrients.

(2marks)

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1. Name the type of hammer that one would require for the following operations.
2. Striking cold chisel. ( ½ mark)

………………………………………………………………………………………………

1. Driving and removing nails in wood. ( ½ mark)

………………………………………………………………………………………………

1. Striking wooden chisels. ( ½ mark)

………………………………………………………………………………………………

1. Breaking stones for masonry work. ( ½ marks)

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1. State f**our** ways in which animal utilizes a production ration. (2marks)

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1. State **four** observable features of an indigenous cattle (2marks)

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1. (a) Name **two** forms in which tapeworms are found in livestock (1mark)

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(b) State **four** non-chemical control measures of ticks on the farm (2marks)

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1. State **two** reasons why young rams should be docked (1mark)

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1. State **four** ways of restraining cattle during routine management (2marks)

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1. Give **four** features of housing that help to control livestock diseases. (2marks)

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1. State **two** functions of crop in the digestive system of chicken (1mark)

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1. Give **four** characteristics of a good site for fish pond (2marks)

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1. Give the meaning of the following terms used in livestock as used in livestock

 Production.

 (1½ marks)

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**SECTION B (20 Marks)**

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

1. Below is a diagram of a farm structure for storing grains. Study it carefully and answer questions that follow



(a) Identify the farm structure above (1mark)

………………………………………………………………………………………………

(b) State the function of the part marked **M**  (1mark)

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

(c) Give **two** maintenance practical that should be carried out on the farm structure illustrated in readings for grain storage. (2marks)

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(d) A part from the structure illustrated above, name two other structures used to store grains by NCBP. (1mark)

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



 **C**

 **B**

(a) Which diagram represent the normal presentation of calf at birth?

………………………………………………………………………………………………

(b) What term is used to refer to position shown in diagram B?

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(c) State **three** signs of parturition in cattle (3marks)

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1. The illustration below represents a sheep with parts marked **E**, and **G**. study it and answer the questions that follow.



1. (i) State the operation carried out on the parts labeled **F** and **G.**

 **F**……………………………………………………………………… ( 1mark)

 **G**………………………………………………………………………(1mark)

 (ii) Name the tool used to carry out the operation on the part **G**. (1 mark)

**……………………………………………………………………………………………………**

(iii) Give **two** reasons for each operation carried out on the part labeled.

 **F**…………………………………………………………………………… (1mark)

  **G**…………………………………………………………………………. (1mark)

1. (a) A 300kg pig ration containing 20% crude protein was to be made from wheat bran (3% crude protein) and cotton seed cake ( 24% crude protein). Using the peasons square method, calculate the amount of each feed stuff that is needed to prepare the ration. (5marks)

**SECTION C (40 Marks)**

***Answer any two questions in this section.***

1. (a) Discuss **eight** general methods of disease control. (8marks)

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(b) Describe the procedure of processing honey using heat method. (7marks)

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(c) Give **six** factors considered when selecting an helfer for breeding. (5marks)

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1. (a) Describe the life cycle of a two-host tick. (5marks)

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1. State **six** functions of water in an animal body. (6marks)

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1. Outline **five** importance of farm building. (5marks)

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1. Give **four** signs of heat in a doe. (4marks)

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1. (a) State **four** reasons for dehorning in cattle. (4marks)

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(b) Describe the procedure of egg formation in poultry. (10marks)

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(c) Outline **six** advantages of live fences. (6marks)

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