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**School: …………………………………………….. Candidate’s sign …………………….......**

**Class………………………………………….…..… Adm No…………………...……………...**

**AGRICULTURE 443/2**

**DECEMBER 2021**

**TIME: 2 HOURS**

**MOI HIGH SCHOOL-KABARAK**

**FORM FOUR MOKASA II MOCK**

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

**Agriculture**

**Paper 2**

**INSTRUCTIONS TO CANDIDATES:**

* *Write your name and index number in the spaces provided above.*
* *Sign and write the date of examination in the spaces provided above.*
* *This paper consists of three sections A, B and C.*
* *Answer* ***all*** *the questions in section A and B.*
* *Answer any* ***two*** *questions in section C.*
* *All answers should be written in the spaces provided.*
* *This paper consists of 11 printed pages.*
* *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
* *Candidates should answer all the questions in English.*

***For Examiner’s Use Only:***

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

 **SECTION A (30 MARKS)**

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

* + - 1. Give **two** reasons for washing the udder with warm water before milking. (1mk)

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1. State **four** pre-disposing factors of scours in calves. (2mks)

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1. Name the livestock disease associated with deficiency of the following in the diet. $(1\frac{1}{2}mks)$
2. Iodine……………………………………………………………………………………….
3. Copper………………………………………………………………………………………
4. Manganese………………………………………………………………………………….
5. Name **three** kinds of livestock which can be castrated using a rubber ring. $ (1\frac{1}{2}mks)$

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1. State **three** disadvantages of natural method of calf rearing. $(1\frac{1}{2}mks)$

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1. Give **four** reasons why proper feeding of livestock is important. (2mks)

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1. State **four** maintenance practices of a jack plane. (2mks)

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1. State **four** control measures of cannibalism in poultry. (2mks)

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1. State **four** advantages of a four stroke cycle engine. (2mks)

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1. Give **four** disadvantages of inbreeding in livestock. (2mks)

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1. State **four** practices that should be carried out on wooden fencing posts to make them last long. (2mks)

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1. Give **four** physiological body functions used as indicators of ill-health in livestock. (2mks)

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1. Name **three** dual purpose breeds of sheep. $(1\frac{1}{2}mks)$

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1. State **four** disadvantages of natural incubation. (2mks)

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1. State **four** harmful effects of ticks on livestock. (2mks)

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1. Outline **four** advantages of farm mechanization. (2mks)

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1. Give **two** factors that can lower the quality of concrete. (1mk)

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**SECTION B (20 MARKS)**

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

1. The diagrams K, L, M and N below show four possible ways of drawing milk from the teat of a cow during milking.

 

1. Which diagram shows the proper way of drawing milk. (1mk)

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1. How long should it take to milk a cow from the start to the end of milking. (1mk)

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1. How would a milkman ensure that no milk remains in the udder at the end of milking?

 (1mk)

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1. Give **two** practices carried out on milk immediately after milking. (2mks)

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1. Describe the procedure for castrating a male piglet using a surgical knife. (5mks)

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1. The diagram below shows a livestock parasite.

 

1. Identify the parasite. (1mk)

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1. In which organ in livestock is the parasite found. (1mk)

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1. Name the intermediate host for the above parasite. (1mk)

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1. Outline **two** symptoms of attack in livestock by the above parasite. (2mks)

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

 

1. Identify the tools labelled A and C. (2mks)

A…………………………………………………………………………………………….

B…………………………………………………………………………………………….

1. Give **one** advantage of tool B over A. (1mk)

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1. Give **one** advantage of tool C over tool A and B. (1mk)

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1. State **two** maintenance practices of tool C. (2mks)

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**SECTION C (40 MARKS)**

***Answer Any two questions from this section in the spaces provided after question 21.***

1. a) Describe short term tractor servicing practices. (10mks)

 b) Explain **five** factors influencing milk composition in dairy animals. (10mks)

1. a) Give **six** reasons why embryo transfer use should be encouraged in dairy cattle breeding.

 (6mks)

 b) Explain **ten** measures used to control livestock diseases. (10mks)

 c) Outline **four** functions of water in livestock nutrition. (4mks)

1. a) Describe the causes of stress in poultry production. (7mks)

 b) State **eight** uses of fences in farms. (8mks)

 c) State **five** care and maintenance of a water cooling system of a tractor. (5mks)

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