NAME………………………………………………………..IDEX NO…………………………………………………………………………..

SCHOOL………………………………………………………..SIGN………………DATE…………………………………………………….

**443/2**

**AGRICULTURE**

**PAPER 2**

**TIME: 2 HOURS**

**DECEMBER, 2020**

**MERU CENTRAL CLUSTER EXAMINATION (2020)**

**Kenya certificate of secondary education (k.c.s.e)**

**INSTRUCTIONS TO CANDIDATES**

* Write your name, school and index number, in the spaces provided above.
* Sign and write the date of the 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** and **any two** questions from section **C.**
* All answers must be written in the spaces provided in this booklet

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For Examiner’s Use Only

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| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
| **SECTION** | **QUESTIONS** | | **MAXIMUM SCORE** | | **CANDIDATES SCORE** |
|  |  |  |  |  |  |
| A | 1−18 | | 30 |  |  |
|  |  |  |  |  |  |
| B | 18−22 | | 20 |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  | 20 |  |  |
| C |  |  |  |  |  |
|  |  |  | 20 |  |  |
|  |  |  |  |  |  |
|  | Total score | | 90 | |  |



**SECTION A**

**ANSWER ALL THE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED**

1. Name **two** dairy goat breeds found in Kenya. (1 Mk)

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1. Outline **four** reasons for maintaining farm tools and equipment in good condition. (2 Mks)

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1. Outline **two** predisposing factors of foot rot. (1 Mk)

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1. Name **two** rules that should be observed when milking. (1 Mks)

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1. Outline **two** duties of a worker bee in a colony of bees. (1 Mks)

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1. Study the table below fill in the blanks to show the term used to refer to parturition and young ones of the following animals. (2 Mks)

|  |  |  |
| --- | --- | --- |
| **Type of animal** | **Act of parturition** | **Term to refer to the young one** |
| Cattle | Calving | Calf |
| Goats | ………………………………… | ………………………………….. |
| pig | …………………………………. | ………………………………….. |

1. State **four** harmful effects of ticks. (2 Mks)

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1. State **four** desirable factors to consider when siting a fish pond. (2 Mks)

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9. Name the most appropriate tools used in the following operations

a) Removing metal chippings in file (1mrk )

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b) Cutting wood along grains (1mrk)

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c) Branding (1mrks)

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10. State **four** characteristic of Boran cattle (2mrks)

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11. Name **three** methods of out breeding in livestock production ((1 ½ marks)

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12 .What do you understand by the following terms as used I animal production .

1. Caponisation (1mrk)

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b) Bullock (1mrk)

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c. Epistasis(1mrk)

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13State **four** control measures of a liver fluke in livestock. (2 marks)

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14What is “dry cow therapy” in dairy cattle management?

(1/2 mark)

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15State **four** causes of stress in poultry. (2 marks)

16.Distinguish between mothering ability and prolificacy as used in livestock breeding.( 1mks)

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17 Name **two** sources of protein for livestock nutrition. (2 marks)

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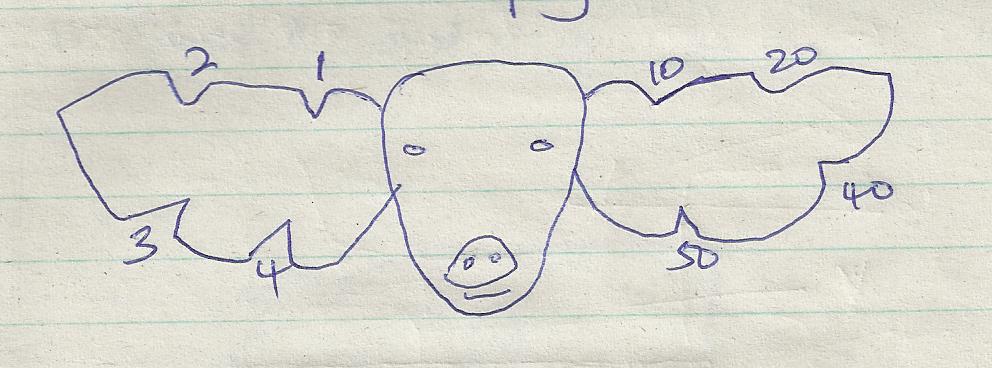
18State **four** signs of parturition shown by a in calf cow. (2 marks)

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**SECTION B ( 20 mks)**

**ANSWER ALL THE QUESTIONS IN THIS SECTION**

19The diagram below shows a certain practice carried out on pig



1. Identify the practice illustrated above (1mrk)

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1. Draw another illustration depicting pig number 37(1mrk)
2. Name the tool used to carry out the practice illustrated above (1mrk)

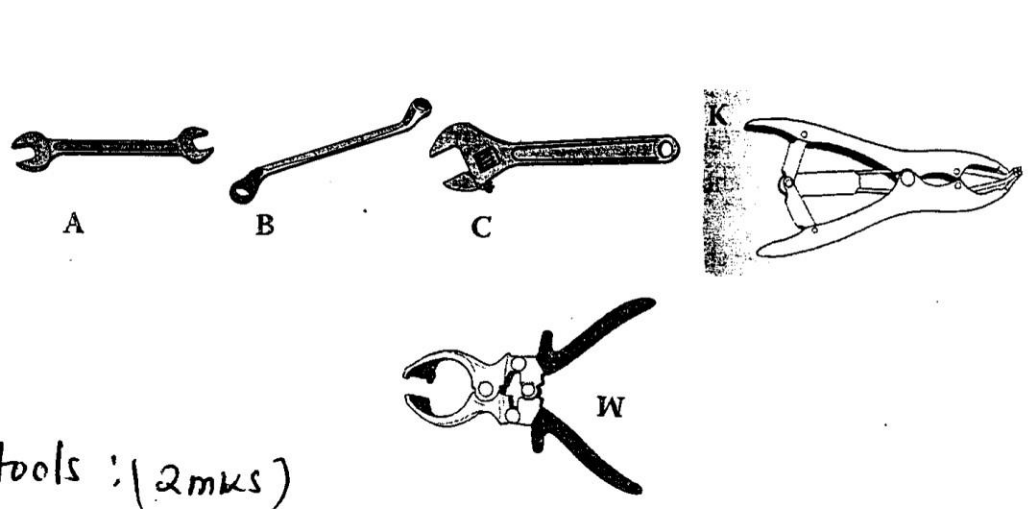
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1. State two other method of identifying piglet (2mrks)

i)……………………………………………………………………………………………………………………………………………..

ii)…………………………………………………………………………………………………………………………………………….

20. The diagrams below show some farm tools. study them and answer the question that follow.



 **K**



a) Name the tools.

(2 marks)

A

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B

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C

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W

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1. State the functional differences between tools K and W. (1 mark)

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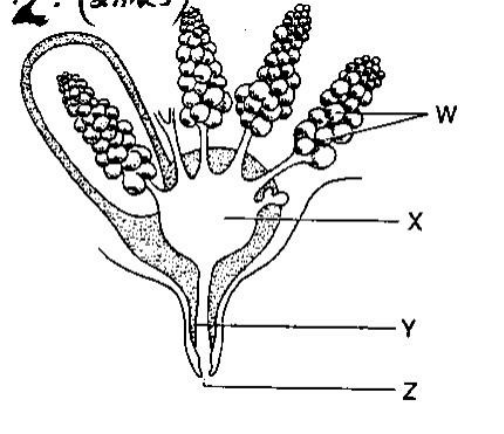
c) What advantage does C have over A and B? (1 mark)

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1. State **one** common maintenance practice carried out in tool C and W. (1 mark)

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21a) The diagram below shows a structure of the udder of a cow. Name the part labeled W, X, Y and Z.(2 marks)



W

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X

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Y

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Z

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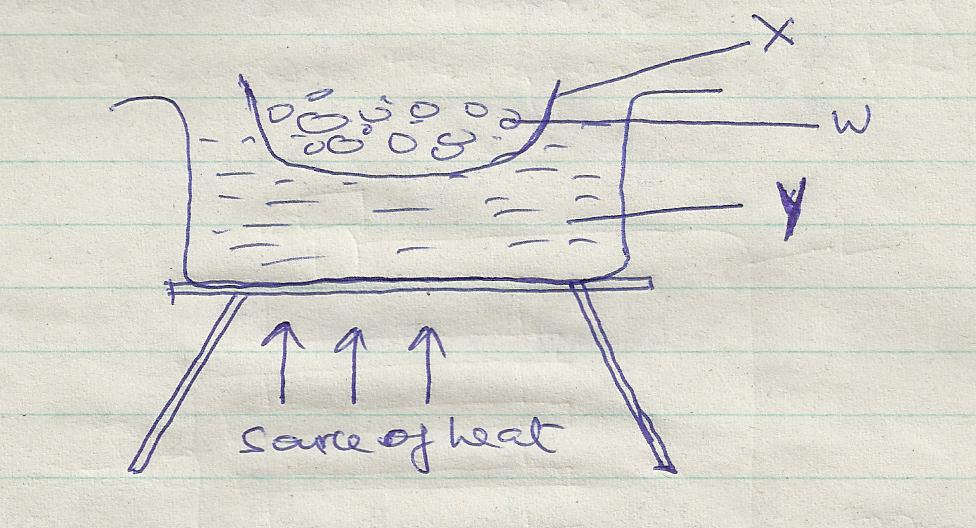
1. What is milk let down (1 mrk)

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c) Name **two** hormones that control milk let down in dairy cow. (2 mrk)

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22. Below is an illustration of a method of extracting honey from combs .Study the diagram and answer the question that follow .



1. Identify the above method of extracting honey (1mrk)

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1. Give a reason why container x should not be heated directly (1mrk

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1. Name the parts labeled w and y(2mrks)

W……………………………………………………………………………………………………

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

1. Besides the above method ,State one other method of extracting honey (1mrk)

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**SECTION C (40 MKS)**

**ANSWER ANY TWO QUESTIONS IN THIS SECTION**

23(a) State **five** reasons why bees swarm. (5 marks)

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b) Describe **five** maintenance practices carried out on a tractor battery. (5 marks)

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c) Explain **five** factors considered when culling livestock. (5 Mks)

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d. Explain **five** mechanical methods of controlling ticks.(5 mks)

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24a) Describe the process of egg formation in chicken up to the point of laying. (10 Mks)

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b) State the differences between four stroke cycle and two stroke cycle engine. (5 Mks)

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c) Describe the process of digestion in rumen. (5 Mks)

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25. a) Describe trypanosomiasis disease under the following sub-headings.

i) Causal organism (1 Mk)

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ii) Animal attacked (1 Mk)

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iii) **Five** symptoms of attacked animals (5 Mks)

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iv) **Three** control measures (3 Mks)

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b) Control **five** control measures for cannibalism (5 Mks)

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(c) Explain **five** parts of a piggery unit (10mrks)

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