**STAREHE GIRLS’ CENTRE**

**NAME……………………………………………………INDEX NO…………………ADM……….…CLASS…**

**CANDIDATE’S SIGNATURE**………………………… **DATE**……………………………………………………

*Kenya Certificate of Secondary Education*

**AGRICULTURE**

**Paper 2**

**July - 2015**

**Time: 2 hours**

**INSTRUCTIONS TO CANDIDATES**

**INSTRUCTIONS TO CANDIDATES**

* Write your name and Adm. 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 *Question in section A and B and* ***TWO*** *questions in section C.*
* This paper consists of ***12*** printed pages.
* Candidates should check the question paper to ascertain that all the pages are printed as

 indicated and that no questions are missing.

**For examiner’s use only**

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| --- | --- | --- | --- |
| Section  | Question | Maximum score | Candidates Score |
| A | 1-18 | 30 |  |
| B | 19-23 | 20 |  |
| C | 24-26 | 2020 |  |
| Total Score | 90 |  |

**SECTION A (30 marks)**

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

1 State **four** maintenance practices for a disc plough. (2 marks)

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2 Name three methods that are used in selection of breeding stock in livestock production. (1 mark)

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3 State four advantages of using animals instead of tractors as a source of power on the farm.(2 marks)

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4 Name one livestock disease that is transmitted by each of the following parasites:

 (a) blue ticks; (1 mark)

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(b) brown ear ticks; (1 mark)

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5. State **four** methods of controlling round worms *(Ascaris sp)* in livestock. (2 marks)

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6 Give the meaning of the following terms as used in livestock health:

(a) disease; (1 mark)

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 (b) vaccination (1 mark)

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7 State **three** maintenance practices for a tractor battery (1 marks)

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8 Name the type of breed into which each of the following breeds of cattle are classified:

(a) Aberdeen Angus; (1 mark)

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(b) Guernsey; *(1* mark)

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(c) Sahiwal; (1 mark)

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 (d) Redpoll. (1 mark)

9 Give two ways in which proper nutrition helps to control livestock diseases. (1 mark)

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**10** List **four** categories of livestock diseases. (2 marks)

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**11** Name two breeding systems that can increase the frequency of high milk production genes in

indigenous cattle. (1 mark)

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**12** Name **two** bloodless methods of castration in lambs. (1 mark)

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13 Give the meaning of the following terms as used in livestock breeding:

(a) recessive gene; (1 mark)

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(b) epistasis.

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 14. State four signs that indicate that a doe is about to kindle. (2 marks)

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15 Name two developmental stages of a liverfluke *(Fasciola sp.)* which occur in the fresh water

snail *(Limnaea sp).*

 (1 mark)

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16 Name the strokes in a four stroke cycle engine. (2 marks)

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17 State four signs of mite attack in poultry. (2 marks)

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18 State three advantages of natural feeding in calf rearing. (1marks)

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**SECTION B** (20 marks)

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

19 A dairy farmer is required to prepare 100 kg of dairy meal containing 20% Digestible Crude

Protein (D.C.P.). Using the Pearson's Square Method, calculate the quantity of soya bean (40% D.C.P.) and rice (16% D.C.P.) the farmer requires for the dairy meal. (4 marks)

**20** Below is an illustration of a camel. Study it and answer the questions that follow.

 

(a) Identify the'camel species illustrated above.

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 (b) Name **three** products that farmers obtain from the camel species illustrated above. (1 marks)

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(c) Give two reasons why the camel species illustrated above is able to survive in its natural habitat. (2 marks)

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21 The diagram below represents farm tools and equipment. Study them and answer the questions that follow.





K





J

L

(a) Identify the tool equipment labelled J, K and M.

 J………………………………………………………………………..........…………

 K……………………………………………………………………..........…………

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

 (b) State one use for each of the tool / equipment labelled K and L.

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 (c) Give **two** maintenance practices for the equipment labelled K. (1 mark)

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22 The illustration below shows a practice carried out to prevent mastitis infection in a dairy cow.

 

(a) Identify the practice. (1 mark)

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(b) At what stage is the practice carried out? (1 mark)

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 (c) State **two** other practices that are carried out on the udder to prevent mastitis infection.

 (2 marks)

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23 The diagram below shows the digestive system of cattle. Study it and answer the questions that follow.

 

(a) Name the parts labelled N, I and Q. (3 marks)

 N.............................................................................................................................

 I.............................................................................................................................

 Q.........................................................................................................................

 (b) State one function for each of the parts labelled S and T. : (1 mark)

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 (c) Give **one** enzyme produced by each of the parts labelled R and S. (1 mark)

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**SECTION C** (40 marks)

*Answer any* ***two*** *questions from this section in the spaces provided after question 26.*

24 (a) Explain the factors considered when culling livestock. (5 marks)

(b) Describe poultry management under the following sub-headings: (8 marks)

 (i) causes of stress

 (ii) control measures for cannibalism.

25 (a) Describe the feeding practices in artificial rearing of a dairy calf. (7 marks)

 (b) Describe Newcastle disease under the following sub-headings: (10 marks)

(i) causal organism; (1 mark)

 (ii) signs of infection; (7 marks)

(iii) control measures. (2 marks)

26. (a) Describe the uses of fences on the farm. (10 marks)

(b) Give **five** harmful effects of liver flukes in sheep rearing. ( 5 marks)

(c) State the differences between a diesel engine and a petrol engine. (5 marks)

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