NAME …………………………………………………… INDEX NO:…………………

CANDIDATE’S SIGNATURE………………………… DATE:……………………….

443/2

**AGRICULTURE**

PAPER 2

MARCH/ APRIL 2015

2 HOURS

**SUNSHINE SECONDARY SCHOOL**

*Kenya Certificate of Secondary Education (KCSE)*

443/2

AGRICULTURE

PAPER 2

MARCH/APRIL 2015

2 HOURS

**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 sections **A** and **B**.

5. Answer any two questions from section **C**.

6. Answers should be written in the spaces provided.

**FOR EXAMINERS USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum score** | **Candidates score** |
| A |  1 - 14 | 30 |  |
| B | 15 - 18 | 20 |  |
| C | 19 - 21 | 20 |  |
|  |  | 20 |  |
|  | **Total score** | **90** |  |

*This paper consists of* ***10***  *printed pages. Candidates should check the question paper to ensure that all the Pages are printed as indicated and no questions are missing.*

**SECTION A: (30 MARKS)**

*Answer ALL questions in the spaces provided*

1. (a) State **four** importance of keeping rabbits. (2 marks)

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 (b) Name **two** dual purpose breeds of cattle. (1 mark)

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2. Give **two** reasons for flushing in sheep management. (2 marks)

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3. State **four** qualities of a good vaccine. (2 marks)

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4. Name any **four** components of a zero-grazing unit. (2 marks)

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5. Give **four** management practices carried out in a crush. (2 marks)

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6. (a) State **four** symptoms of coccidiosis. (2 marks)

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 (b) Give **two** ways in which the health of an animal can be restored. (1½ marks)

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7. List **four** abnormalities which may arise during egg formation. (2 marks)

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8. Name any **six** milking requirements after restraining a dairy cattle. (3 marks)

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9. Name **four** factors that influence the amount of concentrates fed to a milking cow. (2 marks)

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10. Give the breeding system involved in each of the following cases;

 (a) Friesian sire mated with Aryshire dam. ( ½ mark)

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 (b) Friesian sire (father) mated with Friesian dam (daughter). ( ½ mark)

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11. State **four** control measures of Tsetseflies. (2 marks)

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12. Name **four** examples of succulent feeds. (2 marks)

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13. List down **three** methods of treating bloat. ( 1½ marks)

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14. Give **four** reasons for maintaining farm tools. (2 marks)

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**SECTION B: (20 MARKS)**

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

15. (a) The diagram below represents a cross-section of a floor of a permanent milking shed.

 (i) Label on the diagram, the layers marked 1, 2, 3 and 4. (2 marks)

1 ------------------------------------------------------------------------

2 ------------------------------------------------------------------------

3 ------------------------------------------------------------------------

4 ------------------------------------------------------------------------

 (ii) State **two** factors that influence quality of concrete. (2 marks)

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16. Below is a diagram illustrating a farm structure. Study it carefully and answer the questions below.

(a) Identify the structure. (1 mark)

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(b) Name the parts G, H and K. (3 marks)

G --------------------------------------------------------------------

H --------------------------------------------------------------------

K --------------------------------------------------------------------

(c) State the factors to consider when siting the structure. (2 marks)

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17. Below are illustrations of live stock parasites. Study them and answer the questions that follow.

(a) Identify the parasites A and B. (2 marks)

 A -------------------------------------------------------------------------------------------

 B -------------------------------------------------------------------------------------------

(b) State **two** control measures for parasite B. (2 marks)

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(c) Give **two** symptoms of parasite A attack on cattle. (2 marks)

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18. Study the illustrations below and answer the questions below and answer the questions that follow.

1. Identify the tools J, K, L and M. (4 marks)

 J -----------------------------------------------

K ----------------------------------------------

L ----------------------------------------------

M ----------------------------------------------

**SECTION C: (40 MARKS)**

*Answer any TWO questions from this section in the spaces provided.*

19. (a) Discuss **five** factors considered when constructing a farm structure. (5 marks)

 (b) State any **five** factors that should be considered when choosing tools and equipment to use in the

 farm. (5 marks)

 (c) Describe ten management practices carried out on a fish pond. (10 marks)

20. (a) Compare the use of animal drawn implement to tractor drawn implements. (10 marks)

 (b) Describe any **five** maintenance practices carried out on an ox-drawn plough. (5 marks)

 (c) Discuss the advantages and disadvantages of using tractor hire serves in the farm over using own

 tractor. (5 marks)

21. (a) Describe the general effects of parasites on livestock. (8 marks)

 (b) Describe East Coast Fever (ECF) under the following sub-headings.

(i) Animal attacked (1 mark)

(ii) Causal agent (1 mark)

(iii) Vectors (1 mark)

(iv) Symptoms (5 marks)

(v) Control measures (2 marks)

 (d) Name any **four** internal predisposing factors of animal diseases. (2 marks)

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