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

**School: ………………………………………………….....……. Sign …………………**

**Date: ……………………………………………………………**

**443/2**

**AGRICULTURE**

**PAPER 2**

**TIME: 2 HOURS**

**JULY/ AUGUST 2016**

**TOP EVALUATION TEST – 2016**

***FORM 3***

**Agriculture**

**Paper 2**

**2 hours**

**INSTRUCTIONS TO CANDIDATES:**

* *Write* ***your******name****,* ***admission number*** *and* ***school*** *in the spaces provided.*
* *Sign and write the date of the examination in the spaces provided.*
* *This paper consists of* ***three*** *sections;* ***A, B*** *and* ***C.***
* *Answer* ***all*** *questions in section* ***A*** *and* ***B.***
* *Answer**any* ***two*** *questions in section* ***C.***
* *All answers* ***must*** *be written in the spaces provided.*

**For Examiner’s Use Only;**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTION** | **MAXIMUM SCORE** | **CANDIDATES’ SCORE** |
| A | 1 - 15 | 30 |  |
| B |  16 – 18 | 20 |  |
| C | 19-22 | 20 |  |
| 20 |  |
|  | **TOTAL SCORE** | **90** |  |

1. Mention **four** factors affecting livestock industry in Kenya. (2 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

2. Give **four** reasons for keeping camel by Kenyan farmers. (2 marks)

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3. Name the **four** pig breeds kept in Kenya. (2 marks)

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4. mention **four** characteristics of exotic cattle breeds. (2 marks)

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5. Why is it important to keep livestock healthy? (2 marks)

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6. Identify **four** ways in which livestock diseases are categorized. (2 marks)

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7. List **four** examples of ecto-parasites. (2 marks)

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8. Mention **four** factors that determine the requirements of water by livestock. (2 marks)

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9.Give **four** roles of proteins in the body of livestock. (2 marks)

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10. Identify **four** sources of minerals needed by livestock. (2 marks)

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11. State **four** characteristics of roughages. (2 marks)

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12. Identify **four** factors to consider when selecting a goat for breeding. (2 marks)

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13. Mention **four** signs of heat in pigs. (2 marks)

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14. Define the following terms. (2 marks)

(a) Castration

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 (b) Caponisation

*………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………...*

15. List **four** types of farm fences. (2 marks)

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**SECTION B: (20 MARKS)**

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

16. (a) The diagram **below** represents roof of a building.

A

D

C

B

 (i) Identify the parts labeled **A**, **B**, **C** and **D**. (4 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

 (ii) Give **four** factors considered when sitting farm buildings and structures. (2 marks)

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(b) Give **four** advantages of using synthetic materials in construction of farm structure. (2 marks)

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17. Below is reproductive system in a bull. Use it to answer questions that follow.



1. Name the parts labeled: (2 marks)
2. *…………………………………………………………………….*
3. *……………………………………………………………………*
4. Give the function of the parts labeled: (5 marks)

1 – *………………………………………………………………………………………………………………*

*2 – ……………………………………………………………………………………………………………..*

*8 – ………………………………………………………………………………………………………………*

*9 – ……………………………………………………………………………………………………………..*

*10 – …………………………………………………………………………………………………………….*

18. The pictures below show dairy breeds of cattle. Use it to answer questions that follow.



Breed A 1



Breed A 2

1. Identify: (2 marks)
2. Breed A1

…………………………………………………………………………………………………..

1. Breed A2

………………………………………………………………………………………………….

1. Give **three** advantages of keeping breed A2 over bread A1. (3 marks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………….

**SECTION C (40 MARKS)**

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

19. Using appropriate illustration, describe the process of egg formation in a layer. (20 marks)

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20. (a) State **five** advantages Artificial insemination. (5 marks)

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b) Describe how gilt is reared from the time of weaning to the time it farrows. (15 marks)

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20. (a) Describe the life-cycle of a tapeworm. ( 8 marks )

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b) Describe the digestion of grass in the rumen of a ruminant. (6 marks)

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c) Give **six** ways of controlling ticks. (6 marks)

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