**Name :…………………………………………………….…… Adm.no ………..........................................**

**School :…………………………………………………..……… .. Class…………………………….………..**

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

**443/2**

**AGRICULTURE**

Paper 2

OCT/NOV 2017

**Time: 2 Hours**

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

**FORM THREE**

**INSTRUCTIONS TO THE CANDIDATES:**

1. Write your **name, index number** and **school** in the spaces provided above.
2. **Sign** and write the **date** of examination in the spaces provided.
3. This paper consists of **Three** Sections: **A, B** and **C**.
4. Answer **ALL** the questions in section **A** and **B** and any **TWO** questions from section **C**.
5. Answers should be written in the spaces provided.
6. This paper consists of **11**printed pages.
7. Candidates should check the questions paper to ascertain that all the pages are printed as indicated and that no questions are missing.

 **For Examiners’ Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATE’S SCORE** |
| **A** | 1-19 | 30 |  |
| **B** | 20-23 | 20 |  |
| **C 24 -26** | 20 |  |
| 20 |  |
| 90 |  |

*This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

**SECTION A (30 MARKS)**

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

1. State **four** importance of keeping livestock healthy. (2 mks)

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2. Give **one** use of each of the following hammers: (1 mk)

(a) Ball-pein Hammer

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

(b) Sledge Hammer

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

3. State **two** pre-disposing factors of foot rot. (1 mk)

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

4. State **four** functions of water in the body of animals. (2 mks)

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5. State **three** various methods used in selection of livestock. ( ½ mks)

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6. Outline **three** disadvantages of artificial insemination in cattle management (1 ½ mks)

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7. Name **four** breeds of dairy goats. (2 mks)

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8. Give **four** advantages of using spray race in controlling ticks from livestock. (2 mks)

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9. State **four** reasons for proper maintenance of farm tools and equipment. (2 mks)

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10 Give **four** reasons why farmers handle livestock . (2mks)

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11. State **three** importance of flushing in sheep. ( ½ mks)

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12. Name **three** common pests that attack bees in a hive. ( 1½ mks)

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13. Give **three** methods of applying a caricides. ( 1 ½ mks)

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14. Name **two** species of camels that can be kept. (1 mk)

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15. Give **four** maintenance practices of a fish pond. (2 mks)

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16. Give **two** main functions of crop in the digestive systems of poultry. (1 mk)

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17. Give **one** reason why a dropper is used in fencing ( ½ mk)

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18. State **five** ideal features of a rabbit hutch. (2 ½ mks)

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19. State **five** advantages of Kenya Top Bar hive over log hive. (2 ½ mks)

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**SECTION B (20MARKS)**

 ***Answer all the questions in the spaces provided***

20. Observe the tools X and Y illustrated below and answer the questions that follow



Y

X

(a) Identify the tools. (2 mks)

 **X**…………………………………………

 **Y**…………………………………………

 (b) State ONE use of each of the following tools. (2 mks)

 **X**…………………………………………………………………………………………………………….

 **Y**……………………………………………………………………………………………………………..

(c) State **one** maintenance practice carried out on X. (1 mk)

 …………………………………………………………………………………………………………

21. The diagram below represents the reproductive system of a cow.



**1**

**8**

**5**

**7**

**6**

**4**

**2**

**3**

 (a) Identify the parts labeled 1-4 (2mks)

 1……………………………………. 2:……………………………………….

 3……………………………………. 4:………………………………………..

 (b) Name **two** hormones produced by the part labelled (1). (2 mks)

 …………………………………………………………………………………………………………

 …………………………………………………………………………………………………………

 (c) Give function of the part labelled (7). (1 mk)

 …………………………………………………………………………………………………………

22. The diagram below illustrates a livestock parasite.



(a) Identify the parasite illustrated above. (1 mk)

 …………………………………………………………………………………………………………

 (b) Name **one** animal commonly attacked by the parasite. (1 mk)

 …………………………………………………………………………………………………………

 (c) Give **one** major sign that shows the animal is attacked by the above parasite. (1 mk)

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 (d) Give **two** control measures of the parasite. (2 mks)

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23. The illustration below shows a certain livestock management practice. Study it and answer the questions below.



 (a) Identify the practice. (1 mk)

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

 (b) Give **three** reasons for the above livestock management practice. (3 mks)

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 (c) State **one** advantage of this type of practice as compared to other methods. (1 mk)

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**SECTION C (30 MARKS)**

***Answer any TWO Questions from this section in the answer sheet provided.***

24. (a) State the factors a farmer should consider when selecting materials for constructing

 farm structures. (5 mks)

 (b) Describe the use of various hand tools required for the construction of a permanent dairy shed. (10 mks)

 (c) Describe the preparation that should be carried out for a sow one week before farrowing. (5 mks)

25. (a) Describe Rinderpest disease under the following sub-headings:

 (i) Signs of infection. (6 mks)

 (ii) Control measures. (4 mks)

 (b) Explain **six** ways in which ticks can be controlled in livestock farming. (6 mks)

 (c) State **four** signs of heat in a sow (4 mks)

26. (a) Explain **five** factors determine the amount of water required by an animal. (10 mks)

 (b) Describe the procedure of harvesting honey. (6 mks)

 (c) State any **four** functions of worker bees. (4 mks)

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