**NAME: …………………………………………………….. SCHOOL……………............**

**ADM NO:………………………… DATE:……………….. SIGNATURE………….……**

**443/2**

**AGRICULTURE**

**THEORY**

**PAPER 2**

**FORM FOUR**

**TIME: 2 Hours**

**CATHOLIC DIOCESE OF KAKAMEGA EVALUATION TEST.**

**AUG/SEPT EXAM 2022,**

**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.

3. This paper consists of **THREE** sections; **A, B**, and **C**.

4. Answer all questions in sections A and **B**.

5. Answer any **TWO** questions in section **C.**

6. All the questions should be answered in the spaces provided

**For Examiners’ Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| Section | Questions | Maximum Score | Candidates score |
| A | 1-12 | 30 |  |
| B | 13-16 | 20 |  |
| C |  | 20 |  |
|  | 20 |  |
| **TOTAL SCORE** | | **90** |  |

**SECTION A: (30 MARKS) Answer** **ALL** questions in this section

1. (a) Name **three** factors that dictate distribution of livestock in Kenya. (1½ mks)

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(b) Name a breed of goats that is brown in colour with two white stripes running from the eyes to the nose. (1/2 mks)

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2. (a) Give **two** reasons why proper storage of tools is important. (1mk)

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(b) Name **two** tools that are recommended for layout and marking. (1mk)

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3. (a) **How** does a vaccine work? (1mk)

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(b) What **causes** the following conditions in livestock?

(i) Osteomalacia (½ mk)

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(ii) Parturient paresis (milk fever) (1/2 mk)

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4. Name **four** tick borne diseases in livestock. (2mks)

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5. (a) What is the function of esophageal groove in a ruminant (1mk)

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(b) List **two** methods of ration computation. (2mks)

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6. State **four** advantages of using contemporary comparison as a method of selection in livestock. (2mks)

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7. (a) What is a notifiable disease? (1/2mks)

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(b) List **three** examples of notifiable diseases. (1½mks)

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8. Give **four** causes of high mortality in Piglets. (2mks)

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9. (a) State **two** disadvantages of using metal frames in construction of farm building. (1mk)

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(b) List any **two** wood preservatives. (1mk)

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10. (a) State **four** factors to consider when selecting eggs for incubation. (2mks)

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(b) State **four** functions of the egg shell. (2mks)

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11. (a) State **four** qualities of colostrum which make it suitable for feeding newly born calf. (2mks)

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(b) What is **dry cow therapy**? (1mk)

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12. (a) State **four** field conditions under which a disc plough is preferred instead of mouldboard plough. (2mks)

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(b) Name **four** implements that are operated by the power take off (P.T.O) shaft. (2mks)

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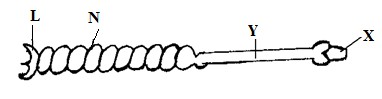
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**SECTION B (20 MARKS)**

**Answer AL**L questions in this section

13. The diagram below shows an auger bit. Use it to answer questions that follow:



(a) Name the part labelled **X a**nd **Y**. (2mks) X:……………………………………………………………………………………..

Y:………………………………………………………………………………………

(b) Give the function of the part labelled N. (1mk)

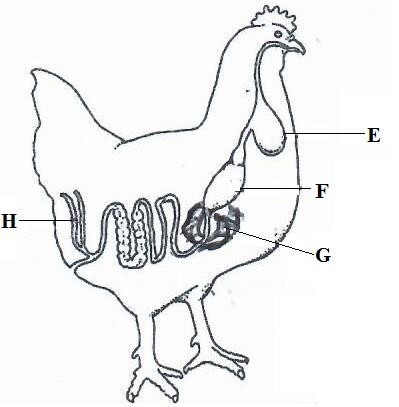
N……………………………………………………………………………………………

(c) List two other bits other than the one shown above. (2mks)

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14. The diagram below shows the digestive system in poultry. Use it to answer the following questions.



(a) Name the parts labelled **E** and **H.** (2mks)

E:…………………………………………H:…………………………………………

(b) Give the function of part **F**. (1mk)

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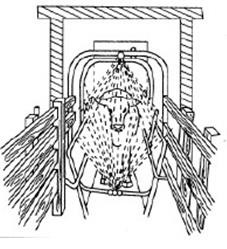
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(c) State **two** ways in which the part labelled **G** is adapted to its function. (2mks)

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15. The diagram below shows a routine practice being carried out on an animal. Study it and answer the questions that follow.



(a) Identify the practice. (1mk)

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(b) Name the structure in which the practice is being carried out. (1mk)

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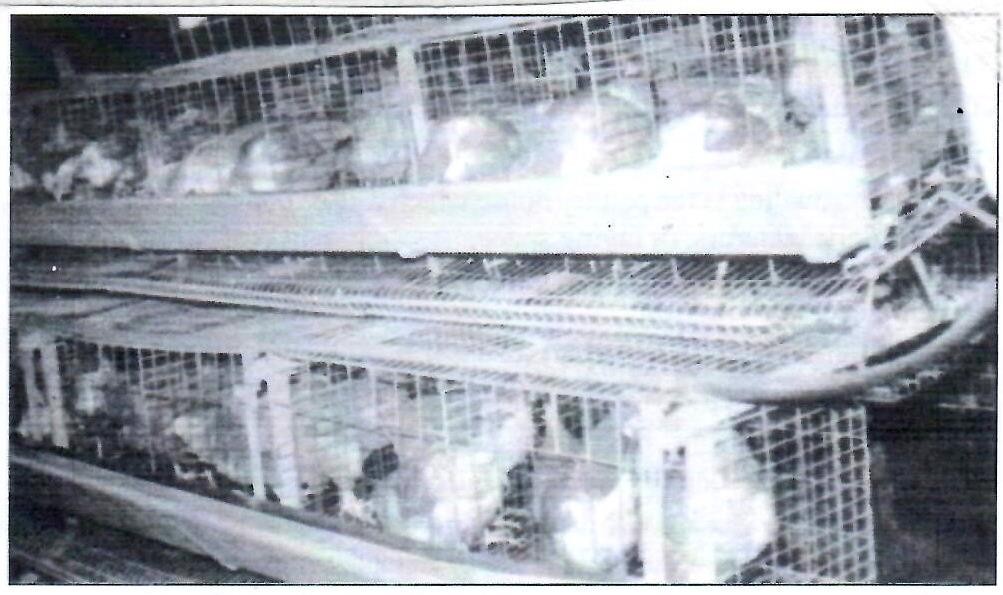
(c) State three advantages of using the above structure instead of plunge dip. (3mks)

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16. Study the picture of the system of rearing poultry and use it to answer questions that follow:



(a) Identify the system of poultry rearing shown above. (1mk)

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(b) Name two other systems of rearing poultry apart from the one shown above. (2mks)

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(c) State two advantages of using the above system. (2mks)

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**SECTION C (40 MARKS)**

**Answer ANY TWO** questions from this section

17. (a) Describe gumboro disease under the following sub-headings

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| --- | --- | --- |
| (i) | Animals affected | (1mk) |
| (ii) | Causal organism | (1mk) |
| (iii) | Incubation | (1mk) |
| (iv) | Symptoms of attack | (5mks) |
| (v) | Control | (2mks) |

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(b) Describe **five** characteristic of Romney marsh dual purpose sheep. (5mks)

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(c) State **five** functions of the lubrication system. (5mks)

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18. (a) Describe how natural incubation is carried out and managed. (8mks)

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(b) Explain seven mechanical methods of controlling ticks. (7mks)

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(c)State **five** advantages of embryo transplant. (5mks)

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19. (a) Describe the procedure of training a calf for bucket feeding. (7mks)

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(b) Describe **Eigh**t measures to be observed when handling bees. (8mks)

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(c) State **five** signs of ill-health observed on the animal’s skin and coat. (5mks).

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