**NAME…………………………………………….………..ADM.NO………….….....................………**

**SCHOOL………………………………………………..CLASS............ SIGN…………....................….**

**DATE…………………......................………**

**443/2**

**AGRICULTURE**

**PAPER 2**

**TIME: 2 HOURS**

**AUGUST-2022**

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**CEKENAS END OF TERM TWO EXAM-2022**

**FORM FOUR EXAM**

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

**443/2**

**AGRICULTURE**

**PAPER 2**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name and admission number in the spaces provided above
2. Sign and write date of examination in the space provided.
3. This paper consists of **three** sections **A, B** and **C**
4. Answer **ALL** questions in section A and B and any **two** questions from section C
5. Candidates must answer the questions in English.
6. All answers should be written in the spaces provided.

|  |  |  |  |
| --- | --- | --- | --- |
| SECTION | QUESTION | MAXIMUM SCORE | CANDIDATE’S SCORE |
| A | 1-17 | 30 |  |
| B | 18-21 | 20 |  |
| C |  | 20  20 |  |
| **TOTAL SCORE** | | **90** |  |

**SECTION A. (30MARKS)**

1. State **four** methods of identification in livestock production. (2mks)

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2. Explain the meaning of the following terms as used in livestock health.

i) A notifiable disease. (1mk)

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ii) Prophylatics. (1mk)

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3. Give **two** reasons for including roughages in diet of non-ruminants. (1mk)

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4. State **four** equalities of a good grain store. (2mks)

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5. Give **four** ways a farmer would adopt to improve production in indigenous cattle. (2mks)

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6. State **two** factors to consider when formulating livestock ration. (2mks)

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7. State **three** importance of farm buildings. (1½mks)

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8. State **four** symptoms of new castle disease in poultry. (2mks)

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9. What is creep feeding in pig production? (1mk)

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10. State the use of each of the following tools and equipment. (2mks)

i) Routers

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ii) Tinsnips

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iii) Wood rasp

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

iv) Chipping hammer

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11. State **three** methods of treating timber for building construction. (1½mks)

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12. State **two** ways in which feed additives are important in animal nutrition. (2mks)

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13. State **four** predisposing factors for mastitis in dairy cattle. (2mks)

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14. Give **two** examples of a three host tick. (1mk)

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15. State **four** general uses of solar energy. (2mks)

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16. Name **two** causes of bloat in farm animals. (2mks)

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17. Name **two** light breeds of poultry. (1mk)

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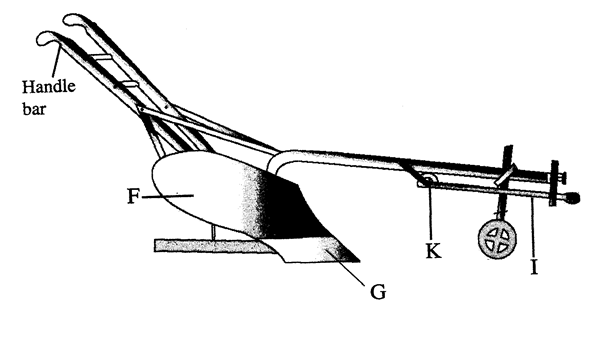
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**SECTION B (20MARKS)**

**Answer ALL questions in this section**

18. Study the diagram below of an ox-plough and use it to answer the questions that follow.



a) Give the functions of parts G and F

G……………………………………………………………………………………………………… (1mark)

F………………………………………………………………………………………………………... (1mark)

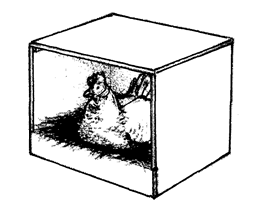
b) Name the parts labelled K and I

K ……………………………………………………………………………………………………… (1mark)

I ……………………………………………………………………………………………………… (1mark)

c) Mark on the diagram using letters M and N the two parts used to adjust the depth of ploughing. (1mark)

19. The diagram below shows a hen sitting on eggs. Use it to answer the questions that follow.



a) Name the method of incubation illustrated above. (1mark)

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b) Give **two** signs that may show that the hen is ready to sit on the eggs. (2marks)

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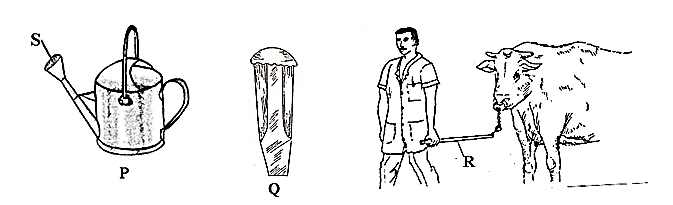
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c) State **two** problems of using the above method to hatch chicks. (2marks)

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20.

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a) Give the identity of tools P and Q.

P (1mark)

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Q (1mark)

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b) What is the role of part labelled S on diagram P. (1mark)

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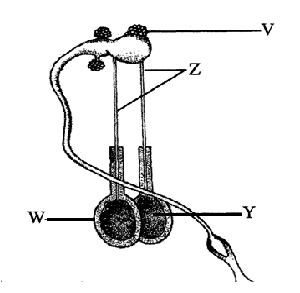
c) Name another tool used in conjunction with tool R. (1mark)

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d) Give **one** maintenance practice for tool Q. (1mark)

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21. The diagram below shows the male reproductive system in cattle. Use it to answer the questions that follow.

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a) Name the parts labelled Z and W

Z (1mark)

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

W (1mark)

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

b) State the function of part labelled V and Y

V (1mark)

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

Y (1mark)

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

c) How is part W adapted to its function? (1mark)

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**SECTION C (40MARKS)**

22. a) Describe short term tractor servicing. (8marks)

b) Explain the procedure of establishing a fish pond. (5mks)

c) Outline preventive measures for livestock diseases. (7mks)

23. a) Describe brucellosis under the following subheadings:

i) Causal organism (1mark)

ii) Transmission (1mark)

iii) Symptoms (4mks)

iv) Control measures (4mks)

b) State the function of any five parts of a zero grazing unit in dairy farming. (5mks)

c) Explain **five** factors that should be considered when choosing tools and equipment to use in the farm.

(5mks)

24. a) Explain **eight** qualities of an ideal broader for a day old chick. (8mks)

b) Describe **seven** factors that a farmer should consider when sitting a bee hive to prevent swarming of bees.

(7mks)

c) State **five** functions of water in nutrition. (5mks)

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