**BUNAMFAN CLUSTER EXAMINATION - 2022**

**Kenya Certificate of Secondary Education**

**443/2 – AGRICULTURE – Paper 2**

**June 2022 - 2 hours**

**Name**………………………………………**Adm No**……

**Class**…………… **Date**……………………………

**Instruction to candidates.**

1. Write your name and index number.
2. This paper consists of three sections A, B and C.
3. Answer all the questions in A and B and two in section C.
4. All answers should be written in the spaces provided on the question paper.

**FOR EXAMINER’S USE ONLY**.

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| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAXIMUM SCORE** | **CANDIDATE SCORE** |
| A | 1-20 | 30 |  |
| B | 21-24 | 20 |  |
| C | 25-27 | 40 |  |
|  | TOTAL | 90 |  |

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 GRAND TOTAL.

**SECTION A (30MKS)**

 Answer all the questions in this section.

1. State **four** causes of stress in poultry. (2mks).

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1. State **four** factors that determine the amount of feed an animal consumes (2mks.)

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 3. State **four** advantages of artificial calf feeding. (2mks.)

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1. Name **two** methods of service in livestock breeding (1mk).

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 5.Name **two** species of camel. (1mk).

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1. State **four** functions of vitamins in livestock body (2mks.)

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7.**Define** the following terms (2mks).

 (a) Cockerel-

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 (b) Broiler-

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 (c) Ewe-

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 (d) Kid—

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 8. List **two** main parts of a farm building. (1mk).

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 9. State **two** reasons why lubrication or greasing of farm machines is important (1mk).

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 10. Give **two** reasons for seasoning timber before it is used for construction. (1mk).

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 11. **State** the functional difference between a drenching gun and a bolus gun. (1mk).

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12. Name **four** tools which a farmer uses for dehorning cattle. (2mks).

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1. List **two** reasons why bees are fed with syrup (1mk).

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1. **Differentiate** between inbreeding and outbreeding (1mk).

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 15. Identify **four** abnormalities which can be identified in eggs through candling (2mks).

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16. Name **two** dual purpose breeds of sheep (1mk).

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17. State **four** factors which influences the rate of respiration in farm animals (2mks).

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1. Mention **four** preventive measures farmers uses to control diseases in animals (2mks).

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1. State **four** harmful effects of lice in sheep. (2mks).

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1. Name **two** examples of two host ticks. (1mks).

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**SECTION B (20MKS)**

 Answer all the questions in this section.

1. Study the diagram below and answer the questions that follows.

1. **Identify** the tool. (1mk)

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 (b).**Name** the parts labeled .(3mks).

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

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

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1. State **two** maintenance practices of the tool above (2mks).

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1. Using Pearson's square method, **compute** a 200 kg ration with 20% DCP from oats which contains 10% DCP and sim sim seedcake containing 60%DCP (3mks).

23.Study the illustration below and answer the questions that follow.

1. **Identify** the parts labeled (2mks).

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

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

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

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

1. State **one** use of the part labelled L. (1mk).

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 (c) State **one** reason why it is important to have the structure labelled M at the edge of the roofing materials. (1mk).

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1. Below is an illustration of a sheep with parts marked E, F and G.

 (a)**State** the operations that are carried out on the parts labelled (2mks).

 E-------------------------------------------------------------------------------------------------------

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

 (b)State **two** reasons for carrying out the operation identified in E (2mks).

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 (c) At **what** age should the operation stated in E be carried out. (1mk).

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 (d).State **two** methods of carrying out the operation named in E. (2mks).

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**SECTION C (40MKS)**

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

1. (a).Give **nine** reasons why the battery cage system of rearing poultry is popular for used by large scale poultry farmers. (9mks.)

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1. Describe **five** management practices carried out on a fish pond. (5mks).

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1. Describe **six** symptoms observed on a calf heavily infested with internal parasites (6mks).

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 26.(a)State **six** advantages of animal power over tractor power in seedbed preparation.(6mks).

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 (b)Explain **nine** factors to consider in siting farm structures (9mks).

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 (c)State **five** importance's of farm buildings. (5mks).

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 27.(a).Name **two** causes of pneumonia in livestock. (2mks)

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(b)State **four** predisposing factors of pneumonia disease in livestock (4mks).

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 (c).Describe **four** types of stores that can be found on a farm. (8mks).

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(d).State **six** differences between Petrol and diesel tractor engines. (6mks).

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