**FORM FOUR END OF TERM TWO EXAMINATION 2019**

**443/2 AGRICULTURE PAPER 2**

**TIME: 2 Hours**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**INDEX NUMBER: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CLASS: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SIGNATURE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**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 above.*
3. *This paper consists of three sections:* ***A, B*** *and* ***C.***
4. *Answer all the questions in sections* ***A*** *and* ***B****.*
5. *Answer any* ***two*** *questions in section* ***C.***
6. *All answers should be written in the spaces provided in the Question paper.*
7. *This paper consists of* ***12*** *printed pages.*
8. *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
9. *Candidates should answer all Questions in* ***English.***

 **For Examiner’s use only**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** | **Question** | **Maximum****Score** | **Candidate’s****Score** |
| **A** | **1-20** | **30** |  |
| **B** | **21-24** | **20** |  |
| **C** |  | **20** |  |
|  | **20** |  |
| **Total Score** | **90** |  |

**Section A (30MKS) (Answer ALL the questions in this section**

1. Name **two** livestock tools that are used together as a pair. (1mk)

2. Name **three** sources of water in animals body. (1½mk)

3. State **two** signs of lambing in sheep. (1mk)

4. List **two** ways through which a vaccine can be administered to poultry. (1mk)

5. Identify the **main** use of a queen excluder in a Kenyan top bar hire. (1mk)

6. State **two** factors that may predispose dairy cattle to mastitis. (1mk)

7. State the importance of the following parts an egg.

a) Chalaza (1mk)

b) Air space (1mk)

8. Name **three** maintenance practices carried out on a tractor battery. (1½mk)

9. State **two** advantages of using animals’ power in a farm. (2mks)

10. Name **four** farm structures used for handling livestock. (2mks)

11. Distinguish between mothering ability and prolificacy. (2mks)

12. Name **four** tools that are sued when laying concrete blocks during construction of a wall. (2mks)

13. Give **four** factors that may lead to a farmer culling dairy cattle. (2mks)

14. Mention **four** physical characteristics of exotic beef cattle breeds. (2mks)

15. State **four** factors considered when siting a fish pond in a farm. (2mks)

16. State **four** causes of cannibalism in poultry production. (2mks)

17. Name **two** hormones that control milk let down in a dairy cow. (1mk)

18. Give **two** reasons why walls of dairy shed should be white washed instead of painting with oil paints. (1mk)

19. List **two** functions of proteins in livestock. (1mk)

20. Gives **two** uses of litter in a poultry house. (1mk)

 **SECTION B (20 marks)**

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

21. The diagram below shows a livestock parasite.

 

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

b) State **two** harmful effects of the above parasite on livestock. (1mk)

c) Explain any **two** methods used in the control of the above parasite. (2mks)

22. The diagram below represents the structure of a quarter of the cow’s udder. Study it and answer the questions that follow.

 

a) Name the parts labelled B and C. (2mks)

 B –

 C –

b) Name the process that takes place in the part labelled A and the hormone that controls it

Process –

Hormone –

c) State the function of the part labelled D. (1mk)

23. Below is a farm implement. Study it keenly and answer the questions that follow.

 

 a) Name the farm implement drawn above. (1mk)

 b) Identify the parts labelled A, B, C and D (2mks) A

B

C

D

 c) State two maintenance practices carried out on the implement (2mks)

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

 

 ..

 a) Identify the practice. (1mk)

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

 c) Give **three** advantages of using the above structure instead of a plunge dip.

 (3mks)

 **SECTION C (40 MARKS)**

 **Answer ANY two questions from this section in the spaces provided after question 27**

25. a) State and explain **five** reasons why farmers should keep livestock healthy. (10mks)

b) Discuss **four** factors that influence the dairy feed requirement of an animal. (8mks)

c) Name **two** methods used to compute livestock feeds. (2mks)

26. a) Describe Anthrax under the following subheadings.

 i) Causal organism. (1mk)

 ii) Signs of infection/symptoms. (6mks)

 iii) Control measures. (3mks)

B) i) State and explain condition necessary for artificial incubation. (8mks)

ii) State **two** advantages of artificial incubation. (2mks)

27. a) State the differences between digestion in ruminants and non-ruminants. (5mks)

b) Describe the artificial rearing of layers chick from one day up to the end of brooding.

 (10mks)

c) Explain the procedure of establishing wire fence. (5mks)

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