***Name………………………………………………………….Index No………………………..***

**443/2**

**AGRICULTURE**

**Paper 2**

2 Hrs

**SET 5**

**FORM 4**

**Instructions**

*This paper consist of three sections* ***A,B*** *and* ***C****. Answer all questions in section* ***A*** *and* ***B*** *and any two questions in section* **C.**

**All answers be written in the spaces provided.**

 **For Examiner’s Use Only**

|  |  |  |  |
| --- | --- | --- | --- |
| Section | Question | Maximum Score | Candidates Score |
|  **A** | 1-18 |  **30** |  |
|  **B** |  19-23 |  **20** |  |
|  **C** |  |  **20** |  |
|  |  **20** |  |
|  **Total Score** |  **90** |  |

**SECTION A (30 marks**)

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

1 State four maintenance practices carried out on a rotary mower. (2mks)

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2 Give three advantages of using contemporary comparison method in selection of a breeding stock in livestock. (1 ½ mks)

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3 Give three reasons why water power is not commonly used in the farm. (2mks)

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4 State two basic rules that should be followed in order to achieve success in control and treatment of endoparasites. (1mk)

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5 State four ways through which vaccines are administered to control diseases in livestock.

 (2mks)

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6 Give the meaning of the following terms as used in livestock health.

1. Immunity (1mk)

………………………………………………………………………………………………

1. Curative treatment ( 1mk)

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7 State three characteristics of air cooled Engines. (1 ½ mks)

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8 (a) Name three dual purpose breeds of sheep. (1 ½ mks)

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1. Give the home origin of Angora goat breed. ( ½mk)

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9 List two factors associated to the animal that determines the amount of feed that an animal consumes. (1mk)

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11 Give two reasons for out breeding in livestock. (1mk)

………………………………………………………………………………………………………12 Name two methods of identification used in pigs. (1mk)

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13 Define the following terms as used in livestock breeding

1. Outcrosssing (1mk)

……………………………………………………………………………………………

1. Crossbreeding (1mk)

……………………………………………………………………………………………

14 (a)State three signs of heat in pigs. (1 ½ mks)

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1. Give three signs of farrowing in pigs. (1 ½ mks)

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15 What is the intermediate host for liver fluke? ( ½mk)

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16 State three advantages of two stroke cycle engine. (1 ½ mks)

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17 State four effects of parasites in livestock. (2mks)

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18 (a) Give four reasons why the feeding of colostrum is important in the rearing of piglets.

 (2mks)

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 (b)Name the hormone that controls heat period in pigs. ( 1mk)

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**SECTION B (20 marks)**

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

19 Calculate the amount of silage required by a cow weighing 400 kg using the following information. A cow requires 3kg of dry matter (DM) for every 100kg of body weight per day. Silage contains 40% dry matter. Calculate the amount of silage the cow should be given per day.

 (2mks)

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20. Below is an illustration of a livestock routine management practice. Study it and answer questions that follow.

 

(i) State the reason for carrying out the routine practice shown above. (1mk)

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(ii)Give three factors that affect the effectiveness of the chemical used above. (1 ½ mks)

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21 The diagram below represents a workshop tool. Study the diagram and answer the questions that follow .

 

(i)Name the parts **F , G , H ,** and **I** as indicated on diagram. (2mks)

 **F**………………………………………………………………………………………….

 **G**………………………………………………………………………………………..

 **H**……………………………………………………………………………………….

 **I**………………………………………………………………………………………….

(ii)Give one use of the tool. ( ½mk)

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(ii)Name two other tools which would do a similar job as the workshop tool shown in the diagram above (1mk)

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(iii)State two precautions that should be taken when using the tool. (1mk)

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(iv) Give two maintenance practices carried out on the above tool. (1mk)

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22 Study the illustration below and answer questions that follow.

 

 (i)Name the parts labeled **Q , R** , and **S**. (1 ½ mks)

 **Q**……………………………………………………………………………………………………

 **R**……………………………………………………………………………………………………

 **S**……………………………………………………………………………………………………

 (ii)Give the function of the part labeled **Q.** ( ½ mk)

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 (iii)State four factors that determine the type of materials to use in construction of the wall.

 (2mks)

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23 Diagram **T** and **M** below show farm implements.

 

 (i)Give the source of power used in operating each of the implements. (1mk)

 **T**……………………………..

 M………………………………….

 (ii)State the means by which each of the above implements are attached to its source of

 power.

 T………………………………………….. (1mk)

 M………………………………………….. (1mk)

 (iii) Give two advantages of implement **T** over **M**. (1mk)

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 (iv) State two maintenance practices for implement **T**. (2mks)

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**SECTION C (40 marks)**

**Answer any two questions from this section in the spaces provided after question 26.**

24(a) Explain the procedure 0f drenching a calf using a bottle. (6marks)

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 (b)Explain the advantages of deep litter system in poultry rearing. (7marks)

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 (c) Explain the factors that influence milk composition. (7marks)

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25 (a) State and explain the rearing practices carried out on a male calf from birth to weaning period (5marks)

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 (ii)Describe the process of castration in male piglets using surgical blade. (5marks)

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1. (i)State the predisposing factors of calf pneumonia. (3marks)

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

 (ii)Outline five signs of the above disease. (5marks)

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 (iii) Give two control measures. (2marks)

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26 (a) State and explain the management of fish and fish pond. (8marks)

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 (b) Describe the processing of honey using heat method. (7marks)

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 (c) Give the advantages of using disc plough over mouldboard plough. (5marks)

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