**NAME……………………………………………… INDEX NUMBER ……………………………. DATE…………………………….**

**443/2**

 **AGRICULTURE MOCK- 2015**

**PAPER 2**

**TIME: 2HOURS**

**INSTRUCTIONS TO CANDIDATES**

* Write your name and index number in the spaces provided above.
* The paper consists of **three** sections A , B and C.
* Answer all questions in section A and B in the spaces provided
* Answer **any two** questions from section C on foolscaps provided

**FOR EXAMINER’S USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
|  SECTION | QUESTION | MAXIMUM SCORE | CANDIDATE SCORE |
|  A  |  1- 17 |  30 |  |
|  B |   18 -22 |   20 |  |
|  C |  23 24 25 |  40 |  |
|   TOTAL  |   90 |  |

 **SECTION A (30MARKS) *Answer all questions from this section on the spaces provided***

1.Name the breeds of livestock described by the following statements below (1marks)

a)A deep red coloured breed of cattle whose face and parts of legs below the knees and hocks are white. --------------------------------------------------------------------------------------------------------

b)A pig breed white in colour with a straight snout and long ears drooping over the face. ---------------------------------------------------------------------------------------------------------------------------

2.State **two** reasons for feeding bees. (1marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

3.Name **four** qualities of eggs suitable for incubation (2marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

4a)Name **four** livestock diseases that are caused by viruses (2marks) ------------------------------------------------------ ---------------------------------------------------------- ----------------------------------------------------- ----------------------------------------------------------

 b)Outline **three** reasons why calves should be fed on colostrum (1 ½ marks) --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

5a)Identify **three** farm operations powered by engines. (1 ½ marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 b)Give the functions of the following parts of the mould board plough: (3marks) i)Mouldboard: ---------------------------------------------------------------------------------------------------------------ii)Landside : --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------iii)Disc coutler -----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

6.Differentiate between the following (2marks)

(a) Bastard file and rasp file ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

(b) Coping saw and flock saw ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

7.List down **two** tools/equipment used during the handling of cattle during Agricultural exhibition (1mark) ----------------------------------------------------- ------------------------------------------------------------

8.State **two** methods of maintaining good health in livestock. (1marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------9.State **three** signs of external parasite infestation . ( 1½ marks) --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------- 10. State **three** non-chemical methods of controlling ticks. (1½ marks) ---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

11a)State **three** characteristics of livestock roughage feedstuff. (2marks) ---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 b)Give **two** functions of proteins in an animals body (2marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

12.Give **two** advantages of using corrugated iron sheets instead of asbestos for roofing. (2marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

13.Give **two** reasons for spreading a polythene paper in the slab of a farm building (1mark) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

14.Diffferentiate between maintenance ration and production ration. (1mark) ---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

15a)Name the causal organism of trypanosomiasis. ( ½ mark) --------------------------------------------------------------------------------------------------------------------------- 16.Define

 a)Incubation period. (1mark) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------ b) Embryo transplant. (1mark) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------ 17.Why is pen lambing considered to be more beneficial to drift lambing. (1mark) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 **SECTION B (20marks) *Answer all questions in this section in the spaces provided***

18.Below is a diagram showing a cross- section of a brooder for chicks. Use it to answer the questions that follow.



**P**

**Q**

**R**

**T**

**S**

a)Identify the parts labelled **P**, **S and R**. (1½marks)

**P** ………………………………………………………………………………………..

**S**………………………………………………………………………………………..

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

b)What is the purpose of the part labelled **Q**? (1mark) --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------c)State **two** ways by which temperature in the brooder may be raised. (2marks) --------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 d)Name two materials that would be suitable for use as litter in this brooder. (1mark) -------------------------------------------------------- -------------------------------------------------------------

19.The diagram below shows a livestock parasite.



1. In which organ in livestock is the parasite found ? (1mark) ----------------------------------------------------------------------------------------------------------------------------------
2. Name **one** intermediate host of the parasite (1mark) ----------------------------------------------------------------------------------------------------------------------------------
3. Outline **three**  symptoms of attack in livestock by the above parasite. (3marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

20.Below is a diagram showing one of the strokes in a tractors engine. Use it to answer the questions that follow.

 

a) Identify the cycle/stroke ( 1mark)

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b)Name the parts labeled X, Y and Z on the diagram. ( 1½ marks) c) Briefly explain the cycle/stroke in (a) above (2marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

21.Below is a diagram of farm equipment. Use it to answer the questions that follow



(a) Identify the equipment ( ½ mark)

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(b) State the use of the equipment (1mark) ---------------------------------------------------------------------------------------------------------------------------

(c) Name the parts labeled E, F and G (1½ marks)

 E \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 F \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 G \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(d) Identify **two** limitations of using this equipment compared to others that may be used for the same purpose (2marks) ------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

 **SECTION C (40MARKS) *Answer two questions from this section on foolscaps provided.***

22a)Describe the rearing of one day old chicks from the day they arrive on the farm to the point of laying. (15marks)

 b)Compare between the use of a plunge dip and a spray race. (5marks)

23(a) Describe African Swine Fever under the following sub topics

1. Casual organism (in cattle) (1mark)
2. Symptoms (4marks)
3. Control (5marks)

c) Briefly describe the components of the power transmission system. (10marks)

24 (a) Explain **five** factors considered when selecting livestock for breeding: (5marks)

 (b) Describe **ten** management practices carried out on cattle during parturition. (10marks)

c) Describe the ensiling process. (5marks)