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

Candidate’s Signature:……………………………….

Date: ……………….……………….…

**443/2**

**AGRICULTURE**

**PAPER 2**

**JULY/AUGUST 2014**

**TIME: 2 HOURS**

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

**44//2**

**Agriculture 2**

**Paper 2**

**2 hours**

**INSTRUCTIONS TO CANDIDATES:**

* *Write your* ***name*** *and* ***index number*** *in the spaces provided.*
* ***Sign*** *and* ***write the date*** *of examination in the spaces provided*
* *This paper consists of* ***three*** *section* ***A,B*** *and* ***C***
* *Answer all questions in section* ***B*** *and* ***C***
* *Answer any* ***two*** *questions in section* ***C***
* *All the questions should answered in the spaces provided*

**FOR EXAMINERS USE ONLY**

|  |  |  |  |
| --- | --- | --- | --- |
| **SECTION** | **QUESTIONS** | **MAX SCORE** | **CANDIDATES SCORE** |
| **A** |  | **30** |  |
| **B** |  | **20** |  |
| **C**  **TOTAL** |  | **20** |  |
| **20** |  |
| **90** |  |

*This paper consists of 8 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.*

**SECTION A (30MARKS)**

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

1. State **four** categories of farm tools and equipment (2mks)

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

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

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

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

2.. Differentiate between breed and breed type. (1mk)

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

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

1. a) Define pre-disposing factors as used in livestock. (1mk)

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

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

b) State **four** pre-disposing factors that can lead to a cow contracting mastitis. (2mks)

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

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

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

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

4. Distinguish between mothering ability and prolificacy. (1mk)

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

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

5 (a) An animal ate polythene paper and some strings accidentally. Name the stomach chamber

where the materials will be found if slaughtered. (1mk)

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

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

(b) Other than retaining materials above, state the other function of the part of stomach

chamber name din (a) above. (1mk)

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

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

6 (a) Natural mating is amethod of service in livestock production. Name any other **two** methods

of service. (1mk)

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

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

(b) State **four**disadvantages of natural mating. (2mks)

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

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

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

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

7. Give **three** reasons for carrying out maintenance practices on a mower ( 1 ½ mks)

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

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

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

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

8. Name **two** diseases that affect female cattle. (1mk)

9. Why is drenching not a effective method of controlling intestinal parasites in livestock. (1 ½ mks)

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

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

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

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

10

11

12

13

14

15

16. Name any **four** tools used when laying concrete blocks when constructing a calf pen.

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

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

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

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

17. Name any **four** practices carried out on milk immediately after milking.

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

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

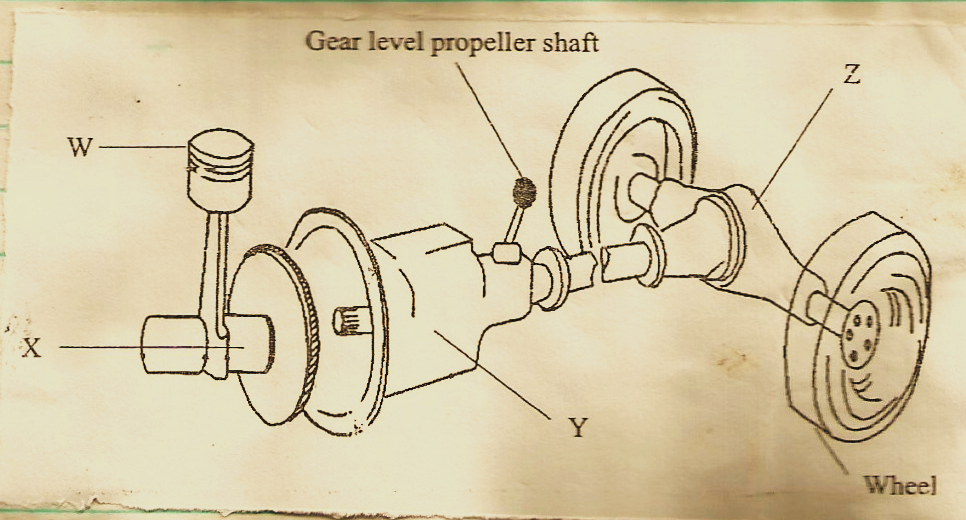
………………………………………………………………………………………………………….

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

**SECTION B (20 MARKS)**

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

18. The diagram below shows parts of a power transmission system of a tractor. Study and answer the

questions that follow.

(a) Name the parts labeled **W,X,Y**, and **Z** on the diagram. (2mks)

**W**………………………………………………………………………………

**X**………………………………………………………………………………

**Y**………………………………………………………………………………

**Z**………………………………………………………………………………

(b) State the function of the parts labeled **W,Y**, and **Z** ( 1 ½ mks)

**W**………………………………………………………………………………

**Y**………………………………………………………………………………

**Z**………………………………………………………………………………

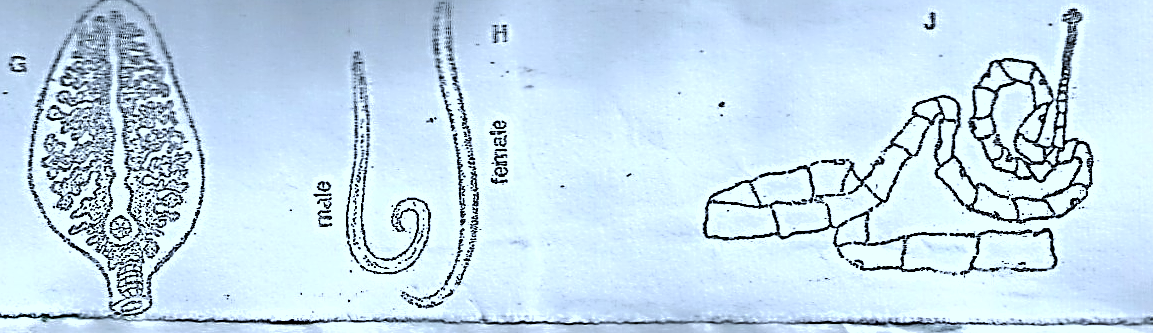
(c) Name **three** ways in which the power is transmitted from the engine. ( 1 ½ mks)

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

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

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

19. Diagrams **G,H**and **J** illustrates some livestock parasites.



(a) Identify parasites**G,H**and **J** (3mks)

**G**…………………………………………………………………

**H**…………………………………………………………………

**J**…………………………………………………………………

(b) Name the parts of the host body when parasite **G** and **H** are found. (1mk)

**G**………………………………………………………….......

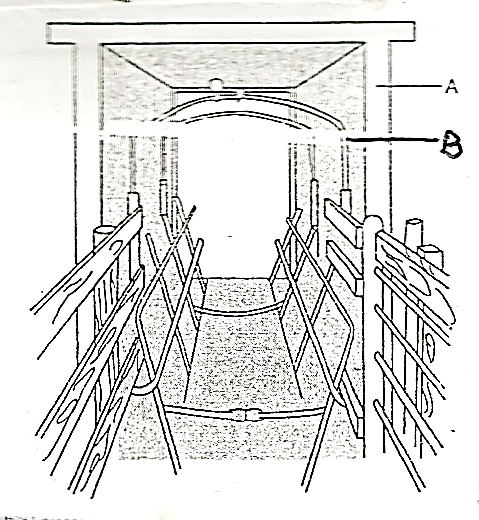
**J**…………………………………………………………………

(c) Name the intermediate host of parasite **G** and **J**  (1mk)

**G**…………………………………………………………………

**J**…………………………………………………………………

20. Below is an illustration of astructure used for tick control in the farm. Study it carefully and answer

the questions that follow.

1. Identify the structure. (1mk)

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

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

1. Name the parts labeled A and B. (1mk)

**A**……………………………………………

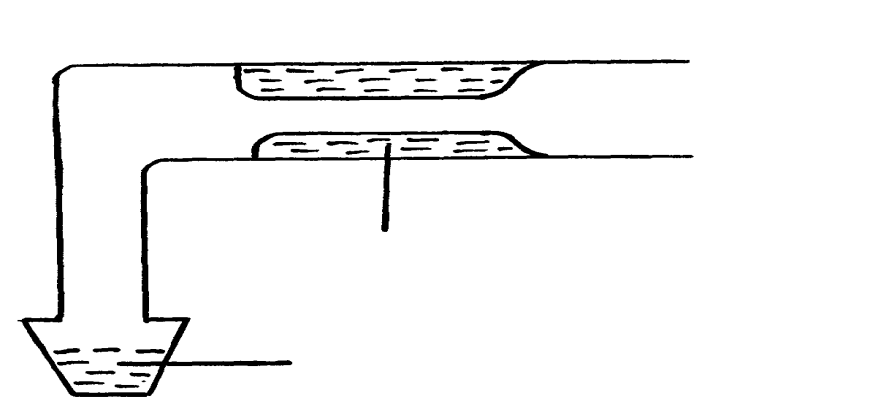
**B**……………………………………………

1. What is the function of the parts labeled (1mk)

A………………………………………………

B ………………………………………………

21. The diagram below shows a livestock production equipment .study it and answer the questions

that follow.

Warm water

Collected semen

1. Identify the equipment (1mk)

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

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

1. What is the importance of warm water in the equipment. (1mk)

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

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

1. Describe the procedure followed when using the equipment in collecting semen. (3mks)

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

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

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

**SECTION C 40 marks)**

***Answer any two questions in this section in the spaces provided after question 24.***

22. (a) Discuss the life cycle of a **three** host tick (8mks)

(b) Discuss any **four** factors that may influence power output of a drought animal. (4mks)

(c) Discuss milk fever under the following headings

(i) cause (1mk)

(ii) symptoms of attack ( 5mks)

(iii) Control (2mks)

23. (a) Describe how a calf is trained to drink milk from abucket ( 6mks)

(b) Outline **four** advantages of artificial incubation ( 4mks)

(c) State **four** management practices that would unsure maximum harvest of fish from a fish pond. (4mks)

(d) give**six** reasons for culling a boar in the farm. ( 6mks)

24. (a) State **four** observable features of poor layer in aflock of layers. (4mksm)

(b) Describe **four** structural requirements of a brooder. (4mks)

(c) State **two** factors considered when sourcing for chicks to be reared for egg production. (2mksm)

(d) Explain the requirements of a deep litter house for poultry rearing. (10mks)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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