**2023 MID-TERM ONE EXAM**

**FORM FOUR**

**AGRICULTURE**

**TIME:2 HOURS**

**NAME……………………………………………….. ADM……………….. CLASS……...**

**SECTION A: (30 MARKS)**

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

1. State **four** advantages of artificial incubation. (2 marks)

1. Give **two** uses of a gear box in a tractor. (1 mark)

1. Name **four** tractor drawn implements that are attached to the three-point hitch. (2mark)
2. Give **four** ways of stimulating milk let down in a dairy cow . (2marks)
3. List **two** advantages of Biogas. ( 1mark)

1. Name three temperate dairy goat breed and three light breed of poultry (3marks)
2. Distinguish between land subdivision and land fragmentation (1mark)
3. List **two** operational differences between a disc and a mouldboard plough(2marks)
4. State **four** factors affecting maintenance requirement of an animal.(2 marks)
5. Mention four methods of breaking seed dormancy. (2marks)
6. Give **four** possible observations during for egg candling. (2marks)
7. State **four** qualities of healthy and clean milking man should have. (2 marks)
8. List **four** characteristics of clean and quality milk.(2marks)
9. Give **four** conditions necessary for artificial incubation.(2marks)
10. Name **four** bacterial diseases affecting cattle.(2marks)
11. State the precautions a farmer should take when using the workshop tools.(2marks).

**SECTION B (20MARKS)**

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

1. The diagram below represents an egg. Study it and answer the questions that follow.



* 1. Name the part labeled  **B** and **D**. (2 marks)
	2. State two qualities of the part labeled **A** that should be considered when selecting eggs for incubation. (2 marks)
	3. What is the function of the part labeled **D** in a fertilized egg? (1 mark)
1. A farmer wants to prepare a ration for layers containing 18% DCP using maize germ 20% DCP and wheat bran 10% DCP.
2. Calculate using Pearson’s square method the amount of each feed-stuff needed in order to prepare 100kg of feed (5marks)
3. Name **one** other method the farmer can use to compute the ratio (1mark)
4.  Below is a diagram of a farm implement

**A**

**E**

**B**

**D**

1. Identify the implement (1 mark)
2. Label the parts marked **A,B,** and **C** (3 makes)
3. State the functions of the parts labeled **E** and **D (**2marks)
4. The diagrams below illustrate a **four** stroke cycle engine system. Study it and answer the questions that follow



1. State the **four** stages of the four stroke cycle engine **G,H,I** and **J** (2marks)
2. Mention **one** disadvantages of a four stroke engine (1mark)

**SECTION C (40MARKS)**

***Answer only two questions in this section.***

1. a) Outline **six** function of a manager in a farm (6marks)

b) Name **four** factors of production involved in agriculture. (4marks)

c) Discuss the differences between four stroke cycle and two stroke cycle (10 marks)

22. a) Name **five** condition that influence egg eating in poultry (5 marks)

 b)What are factors that cause stress in poultry (5marks)

a) What are the advantages of a battery cage system 10marks)

23. a) outline four rules to be observed during milking. (4 marks)

 b) State six materials necessary during milking (6 marks)

c) .Describe ten general methods of disease control in cattle. (10 marks)