NAME………………………………………………………………….ADM…………………

DATE…………………………………………………………………SIGN………………….

**AGRICULTURE**

 **FORM TWO**

**TIME: 2 HOURS**

**TOP SCHOOLS MULTILATERAL END OF YEAR JOINT EXAMS 2023.**

**INSTRUCTIONS TO STUDENTS**

This paper has three sections **A**,**B** and **C**

Answer **ALL** the questions in section **A** and **B** in the spaces provided

Answer only **TWO** questions in section **C** in the spaces provided

**FOR EXAMINERS USE ONLY**

|  |  |  |
| --- | --- | --- |
| **SECTION** | **MAXIMUM SCORE** | **STUDENTS SCORE** |
| **A** | **30** |  |
| **B** | **20** |  |
|  **C**  | **20** |  |
|  | **20** |  |
| **TOTAL** | **90** |  |

**SECTION A**

Answer **ALL** the questions in this section

1. **Differentiate** between apiculture and aquaculture (1mk)

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

1. Name **four** methods of farming (2mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **four** possible uses of income earned from sale of agricultural produce (2mks)

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

1. List **four** human factors that influence agriculture (2mks)

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

1. Give **four** reasons for treating water for use on the farm (2mks)…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..
2. State the **use** of each of the following farm tool listed below (2mks)

 Sickle…………………………………………………………………………………………..

Milk churn………………………………………………………………………………………

Elastrator………………………………………………………………………………………..

Drenching gun…………………………………………………………………………………..

1. State **four** precautions that should be observed when using workshop tools (2mks)

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

1. Give **four** reasons why burning is discouraged as a method of land clearing (2mks)…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..
2. Name **four** practices that enhance minimum tillage (2mks)…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………..
3. Give **two** sources of underground water (1mk)

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

1. State **four** characteristics of a fertile soil (2mks)

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

1. Name**four** breeds of dairy goats (2mks)

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

1. Name **two** types of labour records (1mk)

……………………………………………………………………………………………………………………………………………………………………………………

1. List **four** symptoms of Nitrogen deficiency in plants (2mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Name **two** vegetative materials used to propagate pineapples (1mk)

……………………………………………………………………………………………………………………………………………………………………………………

1. Outline **four** factors considered when selecting a nursery site (2mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State **four** characteristics of a good grain store (2mks)

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

**SECTION B**

**ANSWER ALL THE QUESTIONS IN THIS SECTION**

1. The following is a list of plant nutrients; copper, calcium, nitrogen, zinc, molybdenum, phosphorus, carbon, sulphur, iron and magnesium.

Which of the above nutrients are?

1. Macro elements (2mks)

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

1. Micro elements (1mk)

………………………………………………………………………………………….

1. Fertilizer elements (1mk)

…………………………………………………………………………………………

1. Liming elements (1mk)

…………………………………………………………………………………………

1. The diagram below illustrates a feature observed after digging the soil several meters deep. Study the diagram carefully and answer the questions that follow

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1. Identify the feature that the diagram above represents in the study of soil (1mk)

…………………………………………………………………………………………..

1. Name the parts on the diagram labelled A,B,C and D (2mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. State two ways in which the knowledge of the above feature would be of benefit to a farmer (2mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. the diagram below illustrates a nursery practice

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1. identify the practice (1mk)

…………………………………………………………………………………………..

1. describe the procedure followed in carrying out the practice illustrated (2mks)

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

1. state two advantages of the practice illustrated above in crop production (2mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. The diagram below illustrates a livestock parasite

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1. identify the parasite illustrated above (1mk)

…………………………………………………………………………………………

1. state the major harmful effect of the parasite (1mk)

…………………………………………………………………………………………

1. explain three control measures of the parasite (3mk)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

**SECTION C**

**ANSWER ONLY TWO QUESTIONS IN THIS SECTION**

1. a) Explain the importance of vegetables to a farmer (5mks)

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1. Briefly describe the production of onions under the following sub-headings

i)Varieties (1mk)

……………………………………………………………………………………………………………………………………………………………………………………………………

ii)Ecological requirements (3mks)

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

iii)Land preparation (3mks)

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iv)Field management practices (4mks)

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v)Harvesting and marketing (4mks)

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23a) Define the following terms as used in livestock health (2mks)

1. Disease……………………………………………………………………………………………………………………………………………………………………………
2. Health……………………………………………………………………………………………………………………………………………………………………………
3. State four pre-disposing factors of livestock diseases(2mks)

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

1. Give reasons for keeping livestock healthy (6mks)

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Outline methods a farmer can use to control livestock diseases (5mks)

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

1. Describe the harmful effects of parasites on livestock (5mks)

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

24a) Explain five advantages of crop rotation (10mks)

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 b) Outline five activities that may be undertaken in organic farming (5mks)

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1. A farmer wanted to prepare 200kg of calf rearing ration containing 20 % DCP , using the pearsons square method calculate the amount of maize containing 18% DCP and sunflower containing 35% DCP the framer would need to prepare.

 (5mks show your working)