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

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

**TEACHER.CO.KE AGRICULTURE FORM THREE**

**TERM ONE OPENER EXAM 2022**

**TIME 1 HOUR 30 MINUTES**

**INSTRUCTIONS TO STUDENTS**

Answer **ALL** the questions in the spaces provided

1. **Differentiate** between under-sowing and over-sowing (1mk)

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

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1. State **four** categories of vegetables. (2mks )

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

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1. Give **four** reasons for treating water for use on the farm (2mks)

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1. State the **function** of the following parts in digestive system of poultry (11/2 mks)

 Crop………………………………………………………………………………

 Gizzard…………………………………………………………………………

 Caecum ……………………………………………………………………………

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

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1. Give **four** reasons why burning is discouraged as a method of land clearing (2mks)

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1. Name **four** practices that enhance minimum tillage (2mks)

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1. Give **three** sources of underground water (11/2)

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

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

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

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

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

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

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

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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)

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1. Micro elements (1mk)

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1. Fertilizer elements (1mk)

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1. Liming elements (1mk)

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1. The diagram below illustrates a livestock parasite

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1. Identify the parasite illustrated above (1mk)

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

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

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20. The diagram below is an illustration a tomato crop pest. Study it and answer the question that follows.



1. Identify the pest. (1mark)

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1. How can a farmer control the pest named in (a) above. (1 mark)

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1. Name other **three** minor tomato pest. (3 marks)

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21a) State 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)

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 ii) Ecological requirements (3mks)

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22a) Define the following terms as used in livestock health (2mks)

1. Disease……………………………………………………………………………………………………………………………………………………………………………

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1. Health……………………………………………………………………………………………………………………………………………………………………………

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1. Differentiate between digestion in **ruminant** and **non-ruminants**(5mks)

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

 (4mks show your working)

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23. Describe 5 factors to consider when selecting nursery site (5mks)

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