**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ADM NO: \_\_\_\_\_\_\_\_CLASS:\_\_\_\_\_\_\_\_\_\_**

**DATE: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SIGN: \_\_\_\_\_\_\_\_\_\_\_\_\_TARGET\_\_\_\_\_\_\_\_\_\_**

**AGRICULTURE**

**FORM TWO**

**MID-TERM EXAM**

**TERM 1, 2024**

**INSTRUCTIONS: (ANSWER ALL QUESTIONS) TIME: (1HR 30MIN)**

**1. Define the term straight fertilizer. (l mk)**

**……………………………………………………………………………………………………………………………………………………………………………………………………**

**2. State four characteristics of nitrogenous fertilizers. (4mks)**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**

**3.State five Methods of fertilizer application. (5mks)**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**

**4.How much nitrogen (N) is there in a 500 kg bag of calcium ammonium nitrate (CAN). CAN contains 21% N. (2mks)**

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**5.Calculate the 50kg SA fertilizer bags that would be applied in one hectare of land that requires 60 kg of nitrogen per hectare.SA contains 20% N. (3mks)**

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**6a) What is soil sampling. (1 mk)**

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**b) Identify the methods of sampling shown below. (2mks)**

**Method X Method Y**

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**………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**

**7. Name five sites that should be avoided during soil sampling. (5mks)**

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**………………………………………………………………………………………………..**

**8 a) Give three reasons for soil testing. (3mks)**

**…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………**

**b) Name two main methods of pH testing. (2mks)**

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**9. How does soil pH affect crop production? (2mks)**

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**b) Name the two broad categories of essential elements. (2mks)**

**10.List four examples of the following nutrients**

1. **macro-nutrients (4mks)**

**……………………………………………………………………………………………………………………………………………………………………………………**

 **b micro-nutrients (4mks)**

**……………………………………………………………………………………………………………………………………………………………………………………………………**

**c. Give three macro-nutrients that are referred to as**

1. **Fertilizer elements (3mks)**

**………………………………………………………………………………………**

 **b) Liming elements (3mks)**

**……………………………………………………………………………………………..**

**11.State four roles of nitrogen in plants. (4mks)**

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