

**PRESIDENT'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**LINDI REGION**  
**FORM FOUR MOCK EXAMINATION**  
**BIOLOGY 2A (ACTUAL PRACTICAL)**

**033/2A**

**TIME: 2:30 HOURS**

**MAY 2023**

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**INSTRUCTIONS**

1. This paper consists of two questions with 25 marks each.
  2. Answer all questions.
  3. All writings should be in blue or black ink except diagram that should be in pencil.
  4. Cellular phones and other unauthorized materials are not allowed in the examination room.
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1. You are provided with the specimens N<sub>1</sub>, N<sub>2</sub>, N<sub>3</sub> and N<sub>4</sub>. Observe them carefully and answer the questions that follows:
    - (a) Identify the specimens using their common names.
    - (b) Classify specimen N<sub>2</sub>, N<sub>3</sub> and N<sub>4</sub> to class level.
    - (c) Observe the specimen N<sub>1</sub> carefully and give the significance of the following features in such a specimen;
      - i. Needle shaped leaves.
      - ii. Green colour.
    - (d) (i) State any three ways in which specimen N<sub>4</sub> is beneficial to farmers.  
(ii) Draw a diagram of specimen N<sub>4</sub> and label the parts which used for;
      - a) Reproduction
      - b) Ingestion
      - c) Egestion
    - (e) State two contributions of the kingdom in which specimens N<sub>1</sub> and N<sub>2</sub> belongs in growth of middle income economy in Tanzania.
  2. You have been provided with the specimens P, Q, R and S. Study them carefully and answer the questions below:
    - (a) By using their common names construct a food chain.
    - (b) What would happen to the ecosystem above if specimen R is removed?
    - (c) Name the ecosystem in which the organisms in the food chain above live.
    - (d) Suggest two ways in which the ecosystem would be affected if prolonged drought happens.
    - (e) From the feeding relationship you have constructed in 2.(a) above, identify the organism which is;
      - i. Decomposer
      - ii. Herbivore
      - iii. Producer
      - iv. Secondary consumer
    - (f) Not all energy from one trophic level is available into the next level. Explain.
    - (g) Give any two significances of the feeding relationship you have constructed in 2. (a) above in daily life situations.