

**THE UNITED REPUBLIC OF TANZANIA  
NATIONAL EXAMINATION COUNCIL  
DIPLOMA IN SECONDARY EDUCATION EXAMINATION**

733/1

**BIOLOGY 1**

**Time: 3 Hour.**

**Friday 05/05/2005 a.m**

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**Instructions**

1. This paper has Section A, B and C.
2. Answer **all** questions from Section A and **two (2)** questions from Section B and C each.
3. Section A and B carry 30 marks each and Section C carries 40 marks.
4. Mobile phones are not allowed inside the examination room.
5. Write your Examination Number on every page of your answer booklet.

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### **SECTION A (30 Marks)**

Answer all questions in this section.

1. Define trophic level and list four types of feeding relationships.
2. Give four properties of water that support life.
3. State four differences between DNA and RNA.
4. List four behavioral adaptations of nocturnal animals.
5. State four advantages of sexual reproduction.
6. List four laboratory safety rules for handling acids.
7. State four causes of soil erosion.
8. Give four functions of plant stem.
9. Mention four ways to assess learners during a Biology lesson.
10. State four qualities of a good quiz question.

### **SECTION B (30 Marks)**

Answer two questions in this section.

11. Explain the steps and significance of protein synthesis.
12. Discuss the adaptations of desert plants.
13. Describe the endocrine control of blood glucose.
14. Explain ecological succession and its types.

### **SECTION C (30 Marks)**

Answer two questions in this section.

15. A student-teacher uses a simulation for osmosis but students are disengaged. Cite six feedback points to improve interactivity and clarity.
16. During group work on classification, some learners dominate while others remain silent. Describe six strategies to manage participation and fairness.
17. A practical on blood typing causes unexpected allergic reactions. Detail six procedures to ensure safety, record keeping, and follow up.
18. A teacher fails to align instructional materials with cultural context. Recommend six reflective and corrective actions to enhance relevance and learner engagement.