

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

733/1

BIOLOGY 1

Time: 3 Hour.

Friday 10/05/2002 a.m

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 (40 Marks)

Answer All questions in this section.

1. Define biodiversity and list four measures of its assessment.
2. Give four differences between C3 and C4 plants.
3. List four roles of the skeletal system.
4. State four factors that affect transpiration.
5. Give four effects of pollution on aquatic life.
6. State four structural features of xylem tissue.
7. List four human activities that contribute to global warming.
8. Mention four types of immunity in humans.
9. List four advantages of case study teaching methods.
10. State four characteristics of effective teaching materials.

SECTION B (30 Marks)

Answer two questions in this section.

11. Explain the mechanism and importance of transpiration.
12. Discuss the structure and function of alveoli.
13. Describe stages of meiosis and its genetic significance.
14. Explain adaptations of grasses in savanna ecosystems.

SECTION B (30 Marks)

Answer two questions in this section.

15. In a low-resource lab, students cannot measure transpiration rise. Describe six improvisations to facilitate practical work.
16. A student-teacher mislabels parts during classification practical. Offer six corrective and future-proofing strategies.
17. Some students consistently perform poorly in home assignments. Outline six steps to identify issues and offer support.
18. School changes syllabus mid-semester. As teacher, list six actions to realign teaching plans without disrupting progress.