

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

733/1

**BIOLOGY 1**

**Time: 3 Hour.**

**Thursday 07/05/2008 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 (40 Marks)**

Answer all questions in this section.

1. Define mutation and list three types of gene mutations.
2. State four effects of drug abuse on human health.
3. List four differences between prokaryotic and eukaryotic cells.
4. Give four reasons for conserving biodiversity.
5. Mention four methods of asexual reproduction in plants.
6. State four roles of water in biological systems.
7. Mention four causes of infertility in women.
8. List four apparatus used in preparing food tests in the Biology lab.
9. Outline four advantages of co-operative learning in Biology.
10. Mention four challenges of teaching Biology in schools with limited resources.

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

Answer two questions in this section.

11. Describe the carbon cycle and its significance to living organisms.
12. Explain the process of fertilization and embryo development in flowering plants.
13. Discuss five advantages and five disadvantages of using chemical contraceptives.
14. Explain the structure and function of the human kidney.

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

Answer two questions in this section.

15. Describe six criteria to consider when selecting teaching aids in Biology.
16. Explain six effective classroom management techniques for teaching Biology.
17. Describe six ways of evaluating Biology practical skills in the classroom.
18. Discuss six methods for teaching students with mixed abilities in a Biology class.