

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

733/1

BIOLOGY 1

Time: 3 Hour.

Thursday 07/05/2009 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. List four differences between arteries and veins.
2. Mention four functions of the human skin.
3. Name four methods of food preservation and briefly explain one.
4. List four examples of connective tissues in animals.
5. State four advantages of using models in Biology teaching.
6. Mention four types of pathogens and a disease caused by each.
7. State four reasons why Biology is considered a practical subject.
8. Outline four characteristics of a good laboratory technician.
9. Briefly explain four human activities that affect the environment.
10. Mention four differences between DNA and RNA.

SECTION B (30 Marks)

Answer two questions in this section.

11. Discuss the human digestive system, explaining the roles of its main parts.
12. Describe how osmosis takes place and explain its significance in plants and animals.
13. Explain how hormones regulate the menstrual cycle in humans.
14. Describe five effects of poor waste management on the ecosystem.

SECTION C: (30 Marks)

Answer two questions in this section.

15. Explain six challenges faced by student-teachers during teaching practice and how to overcome them.
16. Discuss six roles of a scheme of work in effective Biology lesson preparation.
17. As a Biology teacher, how would you organize a field trip on classification of plants? Explain six key steps.
18. Describe six features of an effective Biology teaching and learning environment.