

The Open University of Sri Lanka
Faculty of Natural Sciences
B.Sc/ B. Ed Degree Programme



00094

Department	: Zoology
Level	: 5
Name of the Examination	: Final Examination
Course Code and Title	: ZYU5302 Conservation and Management of Biodiversity
Academic Year	: 2024/2025
Date	: 01.12.2024
Time	: 1.30 p.m.- 3.30 p.m.
Duration	: 2 hours

General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **06 (six)** questions in **one** page.
3. Answer any **04 (four)** questions only. All questions carry equal marks.
4. Answer for each question should commence from a new page.
5. Draw fully labelled diagrams where necessary
6. Having any unauthorized documents/ mobile phones in your possession is a punishable offense
7. Use blue or black ink to answer the questions.
8. Circle the number of the questions you answered in the front cover of your answer script.
9. Clearly state your index number in your answer script

1. 1.1 What is meant by the term “**Biodiversity**” and discuss its categories ? (30 marks)
1.2 Discuss the global patterns of Biodiversity distribution (70 marks)
2. “*Human caused extinction as the most serious one with regard to loss of Biological diversity*” Justify the statement. (100 marks).
3. “*Multilateral environmental agreements (MEAs) play a vital role in the global effort to conserve biodiversity*”. Briefly discuss how these agreements contribute to mitigate the biodiversity loss. (100 Marks).
4. Discuss the different ways in which biodiversity contributes to human well-being, economic development, and ecosystem services. (100 Marks).
5. 5.1 Evaluate the **effectiveness** of different conservation strategies such as protected areas, species-specific programs, habitat restoration, and sustainable resource management in preserving biodiversity. (60 Marks)
5.2 What are the **challenges** and **opportunities** associated with above each strategy? (40 Marks)
6. Write Short Notes on any **three (03)**
 - a) IUCN threat categories
 - b) Significance of Genetic Diversity
 - c) Meta population concept
 - d) Different Categories of Protected areas in Sri Lanka
 - e) Wildlife Conservation and Management approaches
