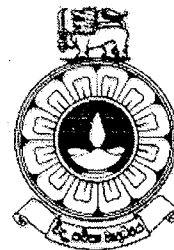


The Open University of Sri Lanka  
Faculty of Natural Sciences  
B.Sc/ B. Ed Degree Programme



Department	: Zoology
Level	: 5
Name of the Examination	: Final Examination
Course Code and Title	: <b>ZYU5302</b> <b>Conservation and Management of Biodiversity</b>
Academic Year	: 2023/2024
Date	: 13.10.2023
Time	: 2.00 p.m.- 4.00 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 Explain the term “Biological Diversity” as stipulated in the Convention of biological diversity (20 marks)  
1.2 What are the factors that have contributed to the uneven distribution of Global biodiversity? (80 marks)
2. 2.1 What are the IUCN threat categories? (10 Marks)  
2.2 What is meant by extinction? (10 marks)  
2.3 “*Habitat fragmentation is the biggest threat for biodiversity*” Apply your knowledge in ecology/ evolutionary principles and Island biogeography to support this statement. (80 marks).
3. Biodiversity is facing many serious threats within South Asian Countries . Explain briefly major threats that lead to the loss and decline of biodiversity in this region. (100 marks).
4. Write an account on values of Biodiversity and its services (100 Marks).
5. Discuss the option available for biodiversity conservation with advantages and disadvantages of each option (100 Marks).
6. Write Short Notes on any **three (03)**
  - a) International conventions
  - b) Human wildlife Conflict
  - c) Significance of Genetic Diversity
  - d) Different Categories of Protected areas in Sri Lanka
  - e) Wildlife Conservation and Management

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