

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



Department	: Zoology
Level	: 5
Name of the Examination	: Final Examination
Course Code and Title	: ZYU5300 Aquatic Biology
Academic Year	: 2024 - 2025
Date	: 11 December 2024
Time	: 09.30 am to 11.30 am
Duration	: 2 hrs

General Instructions

1. Read all instructions carefully before answering the questions.
 2. This question paper consists of **six (06)** questions and **two (02)** pages.
 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.
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1. Describe the physical and chemical factors of a freshwater lake and briefly explain how those factors affect the living organisms.
2.
 - a. Describe the osmotic adaptations of organisms that have migrated from the marine environment to freshwater habitats.
 - b. Discuss the morphological adaptations of aquatic birds.
3.
 - a. Describe the topography of the bottom of the ocean.
 - b. Briefly explain the adaptations shown by deep sea organisms
4.
 - a. Describe the major sources of marine pollution and explain how different types of pollution impact the marine organisms and ecosystems.
 - b. "Animals that live on the rocky shores are well adapted for their environment" Comment on this statement.
5. Discuss the significance of Sri Lanka's coastal and marine ecosystems for the fisheries and tourism industries.
6. Write short notes on any **two (2)** of the following:
 - a. Sedimentation in estuaries
 - b. Zonation of rocky shores
 - c. Algal contribution in the formation of Coral reefs
 - d. Remote sensing applications in coastal wetlands