

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



195

Department	: Zoology
Level	: 5
Name of the Examination	: Final Examination
Course Code and Title	: ZYU5300 Aquatic Biology
Academic Year	: 2021 - 2022
Date	: 03 November 2022
Time	: 09.30 a.m to 11.30 a.m
Duration	: 2 hrs

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
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1. a. Describe the specific properties of water and explain how those properties affect aquatic organisms.
b. What are the factors that affect the primary productivity in a freshwater lake? Explain how those factors affect for the primary productivity.
2. Describe the adaptations shown by estuarine and lagoonal organisms.
3. a. Describe the major environmental conditions that prevail in tropical rocky shores.
b. Explain the adaptations of rocky shore organisms to the conditions stated in 3(a) above.
4. a. Describe the ecological and economical importance of mangroves.
b. Explain the adaptations that allow mangroves to grow and thrive in coastal environments.
5. a. Describe the major sources of marine pollution in Sri Lanka and the effects of pollution on marine organisms.
b. Explain the importance of zooxanthellae in coral reefs.
6. Write short notes on any two (2) of the following:
 - a. Eutrophication in estuaries
 - b. Ocean Tides
 - c. Rock Pools
 - d. Remote sensing applications in aquatic ecosystems