



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES &
TECHNOLOGY

Academic Year 2023/2024

Bachelor of Science Honours in Fisheries and Marine Sciences Degree/ Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level II Semester II Examinations – April/May 2025

OCG 2253: Biological Oceanography

Section II

Answer only **three (03)** questions.

Time: 1 hour and 30 minutes /75 marks

01. Describe factors influencing the temporal variations of global marine primary production. (25 Marks)
02. Briefly explain **any two (02)** of the following. (25 Marks)
 - a.) Role of plankton in marine food webs.
 - b.) Adaptations of deep-sea organisms.
 - c.) Measurement of marine primary production.
03. Write short notes on **any three (03)** of the following regarding the marine ecosystems. (25 Marks)
 - a.) Formation of hydrothermal vents.
 - b.) Dissipative beaches vs reflective beaches.
 - c.) Whale fall communities.
 - d.) Nutrient uptake of phytoplankton.
 - e.) Venomous marine organisms.
04. “Despite the challenges, hydrothermal vent communities thrive in the deep-sea environment”. Justify this statement. (25 Marks)
05.
 - i. Compare basic features of rocky shores and sandy shores. (10 marks)
 - ii. Describe the zonation and species composition of rocky shores in southern Sri Lanka. (15 Marks)

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