



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 IV Semester I Examinations – April/May 2025

OCG4141: Climate Change and Oceans

Time: 1 hour

Answer only **two (02)** questions.

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01. “Increased global warming has led to drastic changes in biodiversity and species interactions in shallow marine ecosystems with implications for coastal human communities.” Justify this statement with examples. (50 marks)
02. Briefly explain **any two (02)** of the following.
- i. Ocean-based mitigation of climate change.
 - ii. Impact of ocean acidification on marine organisms.
 - iii. The Intergovernmental Panel on Climate Change (IPCC).
- (25 marks * 2 = 50 Marks)
- 03.
- i. Explain the main strategies that can be used to reduce the risk of climate change in developing countries. (40 marks)
 - ii. Discuss the main constraints to achieving climate action goals in developing countries. (10 marks)

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