



UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2023/2024

Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level II Semester II Examinations – April/ May 2025

OCG 2222: Geomorphology and Morphometric Analysis

Time: 2 hours

Answer all questions in Part A and only Three (03) questions from Part B

PART B

1.
 - a) Explain the major deformation processes that lead to the formation of mountains. [10 marks]
 - b) Describe the landforms you would expect to observe on a volcanic island. [10 marks]
2. Describe the formation of coastal erosional landforms, focusing on the geological processes that influence their formation over time. [20 marks]
3.
 - a) Describe the distinctive landforms found in the accumulation zone of glaciers. [10 marks]
 - b) Compare and contrast the glacial cycle of erosion with the fluvial cycle of erosion. [10 marks]
4. Write short notes on any five (05) of the following topics
 - a) The use of topographic maps for analyzing landforms
 - b) Formation of waterfalls
 - c) Mechanisms of wind transportation in desert environments
 - d) Sand dunes
 - e) Exogenic processes that shape the landforms
 - f) Desert pavements

[04 marks *05 = 20 marks]

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