



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES &
TECHNOLOGY

Academic Year 2022/2023

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 2024

OCG 4191: Coastal Hazards and Mitigation

Time: 1 hour

Answer Only Two (02) questions

1.

- a. Describe natural and anthropogenic causes of coastal erosion? (10 Marks)
- b. Briefly explain soft and hard structural management tools/options used in the protection of coastal environment from erosion. (15 Marks)

2.

- a. "Climate change intensifies the various environmental hazards in the coastal areas." Justify this statement. (12.5 Marks)
- b. Discuss available mitigatory measures in order to control or prevent coastal environmental hazards mentioned above. (12.5 Marks)

3. Write short notes on **any three (03)** of the followings,

- a. Setting up a green belt/buffer zone
- b. Dune stabilization
- c. Urban development and tourism impacts on coastal dunes
- d. Erosional and depositional features of sandy coast and cliff coast
- e. Mitigation measures for saltwater intrusion

(25 Marks)

4.

- a. Briefly explain the spatial and temporal scales of natural and anthropogenic drivers of saltwater intrusion (use labelled diagrams). (12.5 Marks)
- b. "Saltwater intrusion negatively affects the coastal region." Justify this statement giving suitable examples. (12.5 Marks)

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