

Final Bookly



Index Number:



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

LIM 2212: Limnology of Wetlands, Lagoons, and Estuaries

Time: 1 hour and 30 Minutes

Part A – MCQ

Answer all questions (50 Marks).

Part B

Answer any two (02) questions.

Time: 01 hr.

1. Wetlands consist of distinct soils characterized by redoximorphic features and dynamic chemical transformations.
 - a. Define the term “redoximorphic features” of wetland soil (05 Marks)
 - b. Illustrate all redoximorphic features found in wetland soil using suitable diagrams (15 Marks)
 - c. Describe all possible chemical transformations in wetland soil, providing examples (30 Marks)

2. Compare the following pairs
 - a. Organic and mineral wetland soil
 - b. Regulating services and supporting services of mangroves
 - c. High marsh and low marsh
 - d. Basin mangrove and fringe mangroves
 - e. Electrical conductivity and hydraulic conductivity of wetland soil (50 Marks)

3.
 - a. Define the “estuarine ecosystem” in relation to the sediments. (05 Marks)
 - b. Explain how riverine sediments are distributed into the estuarine ecosystem. (20 Marks)
 - c. “Deposition of the sediments within the estuary is controlled by the particle size and the speed of the currents.” Discuss. (25 Marks)

(Total Marks= 80% for the final exam + 20% for the continuous assessments)

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