



UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2022/2023

**Bachelor of Science Honors in Fisheries and Marine Sciences Degree/
Bachelor of Science Honors in Marine and Freshwater Sciences Degree**

Level I, Semester-II Examination - April/ May 2024

LIM 1222: Freshwater Flora

Time: 1 hour and 30 minutes

Answer ONLY any THREE (03) questions.

- (1) i. List the general characteristics of Bryophytes (30 marks)
ii. Illustrate a fully labelled diagram of a thalloid liverwort. (35 Marks)
iii. Describe the differences between leafy Liverworts and Mosses. (35 Marks)
- (2) i. Illustrate graphically the distribution of different types of hydrophytes and their habitat in a lentic ecosystem. (20 Marks)
ii. Discuss the morphological adaptations of roots of aquatic plants. (30 Marks)
iii. Comment on anatomical adaptations of hydrophytes to be successful in aquatic ecosystems. (50 Marks)
- (3) Describe the ecological roles of freshwater algae in diverse habitats. (100 Marks)
- (4) i. Differentiate the cellular characteristics of Cyanobacteria classified under different taxonomic orders. (60 Marks)
ii. Describe the cellular characteristics of Bacillariophyta providing suitable examples. (40 Marks)

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