

UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2023/2024

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 2025

LIM 1222: Freshwater Flora

Time: 1 hour and 30 minutes

Answer ONLY THREE (03) questions.

- (1) Describe the following cellular characteristics of freshwater algae providing examples and suitable/relevant illustrations where necessary.
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| (a) Size | (20 Marks) |
| (b) Pigments | (20 Marks) |
| (c) Motility | (20 Marks) |
| (d) Reproduction | (40 Marks) |
- (2) i) Providing suitable diagrams/illustrations, briefly describe the characteristics of THREE (03) freshwater Chrysophyte (Golden-brown algae) species. (30 Marks)
- ii) Write an account of the significance of freshwater diatoms. (70 Marks)
- (3) Justify the following statement.
- “Aquatic macrophytes significantly influence the water quality of freshwater ecosystems” (100 Marks)
- (4) i) Discuss the differences between Liverworts and Hornworts. (50 Marks)
- ii) With the use of a graphical diagram, explain the life cycle of the Pteridophytes. (50 Marks)

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