



FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

**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 -2022/2023

LIM 1212: Physical and Chemical Limnology -Theory

Time: 1 ½ hour

Answer any 03 questions.

1. i. Briefly describe the basic patterns of vertical oxygen distribution in stratified lakes.
ii. How do above patterns change due to seasonal mixing process in dimictic lakes?
2. Discuss the relationship between the pH value and inorganic carbon species available in freshwater.
3. i. What are the factors affecting light penetration in aquatic ecosystems?
ii. Write an account on “thermal stratification and circulation of meromictic temperate lakes”.
Provide graphical illustrations to support your answer.
4. Write short notes on the following.
 - i. Colour of natural waters,
 - ii. Oligomictic lakes,
 - iii. Laminar flow,
 - iv. Langmuir circulation

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