



Index Number:

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 I Semester I Examinations – April/May 2024

LIM 3161: Quality Assessment of Aquatic Systems

Time: 1 hour and 15 Minutes

Index Number:

Part-II

Answer only one (01) question.

1. The government of Sri Lanka is planning to initiate a drinking water supply project to provide drinking water for certain rural communities in the dry zone of the country. There are many small reservoirs in this area, and those reservoirs are being largely used for agriculture and fisheries. This project is planning to use these small reservoirs as a source of water for the water treatment plants. As an initial step of the project, it is planned to assess these reservoirs for their water quality for selecting suitable reservoirs.

As a student who followed the course unit “Quality Assessment of Aquatic System”, design a detailed water quality assessment plan to select potential reservoirs for the above project.

(40 Marks)

2. Write short notes on the following topics.
 - a. Application of Heavy Metal Pollution Index (HPI) in water quality assessment
 - b. DRIP Syndrome of Water Quality Assessment
 - c. Transitional water bodies
 - d. Importance of outliers in water quality data analysis

(10 x 4 = 40 Marks)

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