



**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 III Semester I Examinations - June / July 2024

LIM 3152: Wastewater Treatment Technology

Time: 1 ½ hrs

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Answer only **three (03)** questions

1.
  - i. Briefly describe the factors affecting the efficiency of the Dissolve Air Flotation system.
  - ii. "The grit removal processes in wastewater treatment help the smooth functioning of the entire treatment process". Justify this statement by giving suitable examples.
2. "Hungry Bacteria concept is widely used in secondary wastewater treatment to enhance the efficiency of the process". Justify this statement considering the Activated Sludge process.
3. Describe how the Venturi-Induced Convection supports wastewater treatment in constructed wetlands with emergent hydrophytes.
4. Write short notes on the following topics
  - i. Advanced Oxidation Processes
  - ii. Cell residence Time
  - iii. Roughing filters
  - iv. Biological Oxygen Demand

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