

**UNIVERSITY OF RUHUNA**

**Bachelor of Science in Fisheries and Marine Sciences degree Examination**

**Level III Semester I – 2017 July/August**

**LIM3113: Water and Wastewater Treatment**

**Answer all questions**

**Time: 2 hours**

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1. “Depending on the raw water quality of the source, treatment procedure to produce drinking water deviates from typical process”. Describe this statement providing examples from two drinking water treatment plants you visited.
  2. Explain the function of “Aluminium Alum” as a chemical coagulant in water treatment.
  3. Describe the following,
    - i) The purpose of cascade aeration in primary water treatment process and advance aeration in oxidation ditch.
    - ii) Major functional similarities and differences between electro dialysis and electrodeionization.
  4. Describe the mechanism of anaerobic digestion of organic compounds in the process of biological sludge treatment.

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