

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES

Level III Semester I – July / August 2016

LIM 3113 – Water and wastewater treatment

Time: 02 hours

Answer all questions

1. i) What are the main requirements to be met at primary treatment of wastewater?
ii) Describe different unit operations (technical methods) that can be used to meet the above requirements.
2. Describe the deviations of traditional drinking water treatment process which is normally used for river water with a source of eutrophicated freshwater abstracted from a reservoir
3. 'Activated Sludge' method is the most popular secondary treatment technique for treatment of wastewater. Describe the advantages and disadvantages of activated sludge method compared to surface medium supported biological treatment methods.
4. i) Explain a technique used for desalination of water from salt-intruded wells in coastal areas.
ii) Describe the advantages and disadvantages of this method compared to other methods.

