

UNIVERSITY OF RUHUNA  
BACHELOR OF SCIENCE HONOURS IN FISHERIES AND MARINE SCIENCES  
DEGREE

Level III Semester I Examination August/September-2018

LIM 3113 Water and Wastewater Treatment

Answer all questions

Time: 2 hours

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1. Discuss the purpose of use and mechanism of the activity of following chemicals used in processing of drinking water treatment.
  - a. Lime
  - b. Aluminium- alum
  - c. Chlorine
  
2. Use of activated sludge is the most popular biological method for treatment of municipal wastewater. Justify this statement in terms of economic and environment.
  
3. Reverse osmosis (RO) is a water purification technology.
  - a. Discuss the overall process of RO technique in water treatment
  - b. Compare the advantages of RO process with respect to other desalination techniques.
  
4. Giving reasons and identifying its overall process, design a suitable type of constructed wetland to treat wastewater released from livestock farm.

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