

UNIVERSITY OF RUHUNA

Bachelor of Science in Fisheries and Marine Sciences Degree, December 2016

Level II, Semester II Examination

✓ LIM 2222

Aquatic Toxicology

Time: 1 1/2 hrs (one and half hours)

Answer all questions

01. Toxicity to an organism is affected by several factors. Briefly describe how those factors can affect the toxicity in aquatic organisms under the following two categories.
- i) Factors related to the organism.
 - ii) Factors related to the chemical (Toxicant)
02. Briefly describe the following terms and their importance with respect to aquatic toxicology.
- i) Bioavailability
 - ii) Bioaccumulation
 - iii) Bio concentration factor
 - iv) Fugacity (F_i)
03. Giving examples briefly explain the mechanisms of main two types of chemical transformation that occurs in toxico-kinetic phase in order to increase the hydrophilicity of toxicants.