

UNIVERSITY OF RUHUNA

Bachelor of Science Honours Degree in Fisheries and Marine Sciences

Level II, Semester I Examination (Repeat) – 2018 August/September

LIM2112

Applications of Basic Ecological Principles to Aquatic Ecosystems

Answer all questions

Time: 1 ½ hrs

1. Explain the key factors of phytoplankton and zooplankton population dynamics in a lentic ecosystem.
2. Write short notes on the following,
 - a. Trophic State Index
 - b. Resource partitioning by benthic macro invertebrates
 - c. Distribution curves of substrate particle size
3. Describe the importance of environmental factors in determining the secondary productivity of streams.