

UNIVERSITY OF RUHUNA

Bachelor of Science Honours degree in Fisheries and Marine Sciences

Bachelor of Science Honours degree in Marine and Freshwater Sciences

Level II Semester I Examination– 2018 August/September

LIM2141 – Biodiversity and Evaluation Strategies

Answer all questions

Time: 1 hour

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1. Information given in the below Table 1 on abundance of aquatic plants were collected from a reservoir. Based on the information given in the Table 1,
- calculate suitable diversity indices and explain the diversity of aquatic plants in the reservoir
 - identify the keystone species of the reservoir and explain their functions in the reservoir

Table 1: Abundance of aquatic plants collected from a reservoir

Aquatic plant	Abundance (number of aquatic plants/m ²)
<i>Ceratopteris cornuta</i>	15
<i>Eichornia crassipes</i>	40
<i>Lemna minor</i>	12
<i>Nymphaea sp.</i>	24
<i>Typha latifolia</i>	53
<i>Eleocharis sp.</i>	22
<i>Monochoria sp.</i>	36
<i>Chara sp.</i>	07
<i>Ceratophyllum sp.</i>	08
<i>Nitella sp.</i>	18
<i>Cyperus ferrugineus</i>	30
<i>Pistia sp.</i>	15

2. “River Continuum Concept describes the ecosystem diversity of streams”, Justify the statement