

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

Level IV Semester I Examination

July 2015

LIM 4122 (old 4121) Geological and Geographical Aspects related to Aquatic systems

Time: 01 ½ hours

Answer all questions.

01. Using a suitable conceptual model, explain the principles and processes that control composition of natural water.
02. Explain how natural aquatic systems maintain its proton balance of water.
03.
 - i) Discuss the mechanisms of formation of reactive Fe (II) sites on Iron Oxide minerals when the minerals are exposed to aqueous Fe (II).
 - ii) What are the major factors that affect the reactivity of surface-bound Fe (II) for REDOX process at mineral-water interface?

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