

**UNIVERSITY OF RUHUNA**  
**BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE**  
**Level III Semester I – July /August 2016**

**AQU 3112- Aquaculture I - Introduction**

Answer any **Four (04)** questions

**Time: 02 hours**

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01. a) "Aquatic animals possess number of advantages for use in animal husbandry" Briefly describe. (10 marks)
- b) Briefly explain Monoculture and Polyculture systems giving suitable examples. (10 marks)
- c) "Aquaculture can be categorized according to the types of water exchange". Describe this statement giving suitable examples. (30 marks)
02. a) Define the term "Aquaculture". (05 marks)
- b) Describe different types of aquaculture structures used in finfish and shellfish Culture. Give suitable diagrams. (45 marks)
03. a) List the factors which are considered in site selection for aquaculture. (05 marks)
- b) "Soil properties are very important when choosing a site for inland and coastal aquaculture". Discuss this statement. (45 marks)
04. a) Point out the main objectives of rural and commercial aquaculture? (10 marks)
- b) Discuss the environmental impacts of aquaculture. (40 marks)

05. (a) Describe the characters of a dyke that should be considered during designing and construction phases. (35 marks)

(b) Explain the different methods for calculating cross-section of a dyke on horizontal and irregular grounds with appropriate illustrations. (15 marks)

06. Write short notes on **any two (02)** of followings. (50 marks)

- a. Water transport structures
- b. Pond inlet structures
- c. Pond outlet structures

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