

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

Level III -Semester I Examination, August/ September 2018

AQU 3112: Aquaculture I

Duration: 02 hours

Answer **only four (04)** questions

01. a). What is meant by “aquaculture”? (10 marks)
- b). “Aquaculture systems can be categorized into different types depending on the methods adopted for water exchange within the culture system.” Justify this statement with special reference to advantages and disadvantages of each system. (40 marks)
02. Answer **any two** of the following. (25 marks for each)
- a) Write a comparative report on extensive and intensive aquaculture systems.
- b) Write a short account on the use of pens and cages in aquaculture industry.
- c) i. Briefly describe the importance of aquaculture.
- ii. Briefly describe the biological principles in aquaculture.
03. Write an essay on environmental impacts of aquaculture. (50 marks)
04. Providing suitable examples, briefly describe the **four factors**, which should be taken into consideration when selecting sites for aquaculture. (50 marks)

05. "Biological factors of fish are important when selecting them for aquaculture". Discuss this statement giving suitable examples. **(50 marks)**

06. Write short accounts on the following.

- a) Effects of acid sulfate soil on aquaculture **(12 marks)**
- b) Physical characteristics of fish ponds **(12 marks)**
- c) Structure of the water inlet in a fish pond **(16 marks)**
- d) Slope of the pond levee **(10 marks)**

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