

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE HONOURS IN FISHERIES AND MARINE SCIENCES
DEGREE

Level IV Semester I Examination August/September 2018

AQU 4123- Aquaculture Management

Time: 02 hours

Answer any Four (04) questions

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01. a) What is “gas transfer equation” (08 marks)
b) List the factors which are important in deciding the rate of oxygen transfer between air and water and explain their importance. (34 marks)
c) Describe the importance of pond aeration. (08 marks)
02. “Dense algal blooms create problems in fish ponds.” Discuss this statement. (50 marks)
03. a) What is meant by “biofloc”? (05 marks)
b) Describe the role of bioflocs in a Biofloc system. (10 marks)
c) Describe the main processes that control ammonia in biofloc systems. (20 marks)
d) “Intensive aeration and mixing are essential requirements of biofloc systems.” Explain. (15 marks)
04. Write short notes on any two of the following. (25 marks each)
a. Environmental concerns of using antibiotics in fish culture
b. Nitrite in fish ponds
c. Effect of uncontrolled growth of aquatic weeds on aquaculture operations
d. Types of filters used in aquaculture practices
05. Write an account on controlling predators and pests in aquaculture ponds. (50 marks)
06. “Fish survival in a good state of health during transport is influenced by number of factors.” Discuss this statement. (50 marks)

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