

Index Number:

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

Level III Semester II Examination November/December 2023

AQU 3232- Aquaculture Management

Time: ~~02~~^{1 1/2} hours

Answer all questions in part I and any Two (02) from part II

PART II

Select one question from each section

Section A

01. Unlimited and uncontrolled growth of aquatic weeds creates major threats in fish farms. Explain. (50 marks)
02. "Use of chemicals in aquaculture farms may adversely affect the environment". Discuss this statement. (50 marks)

Section B

03. 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)
04. a) What is meant by a "biofilter"? (05 marks)
b) Describe the importance of autotrophs and heterotrophs in maintaining water quality in a biofilter system. (20 marks)
c) Briefly describe the factors that are important in biofilter design and management. (25 marks)

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