



UNIVERSITY OF RUHUNA
FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY
Academic Year 2023/2024

Bachelor of Science Honours in Fisheries and Marine Sciences Degree
Level III Semester II Examinations – April/May 2025

AQU 3222: Methods for Aquaculture II (for tropical shellfish and other organisms)

Time: 1 hour & 30 minutes

Answer any three (03) questions

01. “Best management practices (BMPs) applied in shrimp farming industry have focused on optimizing the biosecurity, and environmental sustainability to ensuring long-term viability and resilience in shrimp aquaculture.” Justify the given statement.

(100 marks)

02. (a) “The use of different culture techniques in freshwater prawn farming is essential for optimizing production, resource efficiency, and environmental sustainability.” Discuss the given statement providing suitable examples.

(50 marks)

(b) Assume that you are going to establish a pond culture system for crab fattening in the Northern province of Sri Lanka. Discuss the requirements for establishment of this culture technique to achieve a productive harvest.

(50 marks)



03. "Effective and regular management, coupled with proper maintenance, plays a crucial role in determining the overall success of an *Eucheuma* sp. farm." Discuss this statement with the aid of suitable examples.

(100 marks)

04. "The farming of American bullfrog (*Rana catesbeiana*) has been identified with a beneficial development in the food industry requiring relatively low technological input." Justify the given statement.

(100 marks)

05. Write short notes on the **any four (04)** of the following.

- (a) Constraints to the establishment of lobster farming
- (b) Use of recirculation aquaculture in shrimp farming
- (c) Handling of eggs and neonatal treatment in crocodile farming
- (d) Site selection for bivalve farming
- (e) Off bottom culture systems used for farming of oysters, mussels and scallops

(100 marks)

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