

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

Level IV Semester I Examination  
July/August 2016

AQU4112- Methods of Aquaculture II-(for tropical shell-fish and other organism)

Time: 1½ hours

Answer any Three (03) questions of the following

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1. Describe how biosecurity interventions in shrimp aquaculture reduce the risks of disease outbreaks.
2. Write concise accounts on the following.
  - (A) Site selection criteria for shrimp aquaculture.
  - (B) Advantages of all male aquaculture of freshwater prawn *Macrobracium rosenbergii*.
  - (C) Selection of crabs for fattening.
3. Either
  - (a) List out possible culture methods which can be used for farming marine bivalves.
  - (b) Discuss the factors that should be considered when selecting a site for farming marine bivalves.

or

- (i) What are the suitable marine and freshwater bivalve species in Sri Lanka which can be used for pearl culture?
- (ii) Giving suitable diagrams, briefly explain the natural process of pearl formation.
- (iii) Describe the surgical procedures of the implantation methods of pearl oyster culture.

4. Write short notes on any three of the following

- a) Crocodile farming.
- b) Seed collection in bivalve farming.
- c) Major Predators of cultured bivalves.
- d) Site selection for sea-weed farming.
- e) Methods of drying harvested sea-weeds to maintain optimum moisture content.

5. (i) Briefly describe the factors that should be considered for selection of suitable seedlings of *Euchema* and their preparation for farming

(ii) Describe the hanging long-line methods used for sea-weed farming

(iii) Briefly describe the types of epiphytes affecting the growth of *Euchema*

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