

UNIVERSITY OF RUHUNA  
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE  
Level I Semester I Examination  
July/August 2017

FAQ 1122 - Evolution and Basic Biology of Shell fish

Time: 02 hours

Answer **any four (04)** questions

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1.
  - a. List the external features of *Macrobrachium rosenbergii* (freshwater prawn).  
Use the diagram/diagrams wherever necessary (20 marks)
  - b. Give a brief description of importance of each of the above mentioned features for their mode of life. (30 marks)
  
2. Write short accounts on the following
  - a. Male and female reproductive systems of shrimps (25 marks)
  - b. Different stages of the life cycle of shrimps (25 marks)
  
3.
  - a. Briefly describe the mouth parts of crabs and their functions (25 marks)
  - b. Write an account on the digestive system of crabs (25 marks)
  
4.
  - a. State at least **three** unique features that can be used to differentiate the following classes of Molluscs. Use labelled diagram wherever necessary. (30 marks)
    - i. Class Bivalvia
    - ii. Class Cephalopoda
    - iii. Class Gastropoda
  - b. Write a short account on economic importance of Molluscs (20 marks)

5. Write short notes on **any three (03)** of the following (50 marks)

- a. Gastropod torsion
- b. Molting of crabs
- c. Feeding and digestion of a generalized mollusc
- d. Locomotion of Cephalopods

6.

- a. Giving suitable diagrams, write a short account on the water vascular system of Echinodermata. (30 marks)
- b. Briefly explain the ecological and economical importance of sea cucumbers (20 marks)

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