

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

Level I Semester I Examination (Repeat)

July/August 2017

FAQ 1132 - Evolution and Basic Biology of Shell fish

Time: 02 hours

Answer any four (04) questions

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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