

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE

Level I -Semester I Examination, August/ September 2018

FAQ 1122 - Evolution and Basic Biology of Shellfish

Duration: 02 hours

Answer any **Four (04)** questions

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1. Write short accounts on the following.
  - a) Cephalopod jet propulsion
  - b) Shell sculpture of bivalves
  
2. (a) Using suitable diagrams, describe the water vascular system of Echinodermata.  
(b) Giving suitable diagrams, describe the torsion in Gastropods.
  
3. Write short accounts on the following.
  - (a) Respiratory system and excretory-osmoregulatory system of Decapods.
  - (b) Life cycle of lobster.
  - (c) Identification features of *Macrobrachium rosenbergii* from other freshwater prawns.
  
4. (a) Using suitable diagrams write an account on the male and female reproductive systems of shrimp.  
(d) Briefly describe the mouth parts of crabs and their functions.
  
5. Using suitable diagram describe the digestive system of decapods.
  
6. (a) Using Suitable diagrams briefly describe the morphological features of typical Shrimp.  
(b) Briefly describe the different stages of life cycle of Penaeid shrimp.

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