

**UNIVERSITY OF RUHUNA**  
**BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE**  
**Level I Semester I Examination**  
**July /August 2015**  
**FAQ 1114-(Repeat) - Evolution and Basic Biology of fish**

**Time: 03 hrs**

Answer **any five (05)** questions

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1. Describe the mode of life of Petromyzon and its adaptations to mode of life.
  
2. Write an account on the importance of sense organs of sharks for a successful marine life.
  
3. Explain how the gill arches of Agnatha were modified to form the jaws of Gnathostomata.
  
4. (a) Explain the torsion of Gastropoda. Use diagrams wherever necessary.  
(b) Write an account on the radula and its modifications.
  
5. (a) Describe the structural difference between a physoclistous and a physostomous swim bladders.  
(b) Describe the hydrostatic function of a physoclistous swim bladder.
  
6. Write short accounts on **any three** (03) of the following
  - (a) Ostracoderms
  - (b) Ammocoete Larva
  - (c) Hag fishes
  - (d) Pearl formation
  - (e) Feeding habit of lampreys

7. Write brief accounts on the following morphological characters of fin fish.

- (a) Fin types of fish
- (b) Teeth types of fish
- (c) Modifications of scales
- (d) Lateral line of fish

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