

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE
Level I Semester I Examination
July /August 2015
FAQ 1112 Evolution and Basic Biology of Fin fish

Time: 01 ½ hrs

Answer **any three (03)** questions

1) "Fishes exhibit enormous diversity in their body shapes and they are good indicators of how fish move and where they live. Briefly discuss how these shapes help them to live in their habitats. (50 marks)

2) **Either**

A) Write short notes on **any two** of the following. (50 marks)

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

OR

B) Write short accounts on **any three** of the following (50 marks)

- (a) Super order Holostei
- (b) Ammocoete Larva
- (c) Skates
- (d) Methods of reproduction in sharks
- (e) Feeding habit of lampreys

3) Describe the most important morphological and anatomical features, which could be used to distinguish between fish belong to super classes Agnatha and Gnathostomata. (50 marks)

4) "Sharks could be considered as one of the most adapted groups of vertebrates for hunting prey in marine waters". Justify this statement giving suitable examples. (50 marks)

5) (a) What are the most important characters of fish belong to Sub-Class Dipnoi ? (25 marks)

(b) Describe the hydrostatic function of a physoclistous gas bladder. (25 marks)

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