

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

FAQ 1113 – Evolution and Basic Biology of Fin-fish

Time – 2 hours

Answer only Four (04) questions

1. (i) What are the major characters of Placoderms? (05 marks)
(ii) Explain why Placoderms are considered to be a more advanced group of fish when compared to Agnatha. (20 marks)
2. “Sharks are a unique group of fish”. Justify this statement (25 marks)
3. (i) Describe the types of jaw suspension found in fish (15 marks)
(ii) Explain how the evolution of jaws have helped fish to be better adapted to an aquatic life. (10 marks)
4. “The enormous diversity of body shapes of fish is an indicator for their places of living and for their achievement of a successful life style”. Justify this statement giving suitable examples. (25 marks)
5. (a) List out the different mouth types and teeth types found in fish. Give at least one example for each category. (10 marks)
(b) Write an account on the importance of having diversified mouth types, jaws and teeth types in facilitating different feeding habits of fish. (15 marks)

6. Write short notes on any three of the following.

(a) Modifications in paired fins of fish

(b) Modifications of scales in fish

(c) Lung fish

(d) Physoclistous swim bladder

(e) Lateral line

(25 marks)

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