

UNIVERSITY OF RUHUNA  
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE  
Level I Semester I Examination  
July 2015  
FSC1132 - Basic Biology for Fisheries & Marine Sciences

Answer any Three (03) questions

Time: 1 ½ hours

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01. “The origin of the evolutionary tree can be documented with evidence”. Briefly discuss this statement with suitable examples and diagrams.
  
02. (i) Define the term “species”  
(ii) Explain natural speciation by comparing the modes of geographical isolation.
  
03. Explain why meiosis is considered as a vital cellular process that allows genetic recombination.
  
04. Mitochondria are known as the powerhouses of the cell.” Justify this statement.
  
05. Write short notes on **any three (03)** of the following
  - (a) Prebiotic earth
  - (b) Hybrid speciation
  - (c) Light microscope vs. Electron microscope
  - (d) Fluid Mosaic Model of the Cell Membrane
  - (e) Functions of Lysosome

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