

UNIVERSITY OF RUHUNA

BACHELOR OF SCIENCE HONOURS IN FISHERIES AND MARINE SCIENCES  
DEGREE

Level II Semester I Examination August/September 2018

OCG2111 Tectonics and Ocean Basins

Time: 01 hour

Answer any two questions

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1.
  - i. Briefly explain the formation and importance of P wave shadow zones . (20 marks)
  - ii. Discuss the future possible tectonic configuration of the Indian Ocean. Refer to Chaterjee et al. 2013 and Ranasinghe 2009 to support your answer (30 marks)
2.
  - i. Briefly explain how and why supercontinents break up? (20 marks)
  - ii. How do Geologists determine Earth's large-scale internal structure? (30 marks)
3.
  - i. Explain the tectonic and biological processes involved in the formation of atolls. (20 marks)
  - ii. Why does the western Pacific Ocean have many island arcs but the eastern Pacific Ocean has very few? Explain their formation. (30 marks)

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