

**UNIVERSITY OF RUHUNA**  
**BACHELOR OF SCIENCE IN MARINE AND FRESH WATER SCIENCES DEGREE**  
**BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE**  
**Level I Semester I – 2017 July / August**

**OCG1111 – INTRODUCTION TO OCEANOGRAPHY**

Answer any Two (02) questions

**Time: 01 hour**

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01. a. Briefly explain how different properties of sea water contribute in forming thermohaline circulation (20 marks)
- b. Write short notes on
- i. Trade winds
  - ii. Littoral zone
  - iii. Residence time
  - iv. Interference of ocean waves
- (30 marks)
02. a. Compare and contrast deep ocean waves and shallow ocean waves. (20 marks)
- b. Write short notes on 05 prominent features of a passive continental margin (30 marks)
03. a. Briefly discuss the major stages of the evolution of oceanography (20 marks)
- b. Write short notes on
- i. Challenger expedition
  - ii. Ocean drilling program
  - iii. The Flip facility of Scripps
  - iv. Marine food chains
- (30 marks)
04. a. Write a brief account on marine submersibles (20 marks)
- b. “Composition and physical properties of earth interior do not vary uniformly”  
Discuss this statement with suitable facts and figures (30 marks)