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UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE IN FISHERIES AND MARINE SCIENCES DEGREE

Level I Semester I Examination

July /August 2016

OCG1112 - Introduction to Oceanography

Time: 02 hours

Answer **any four (04)** questions

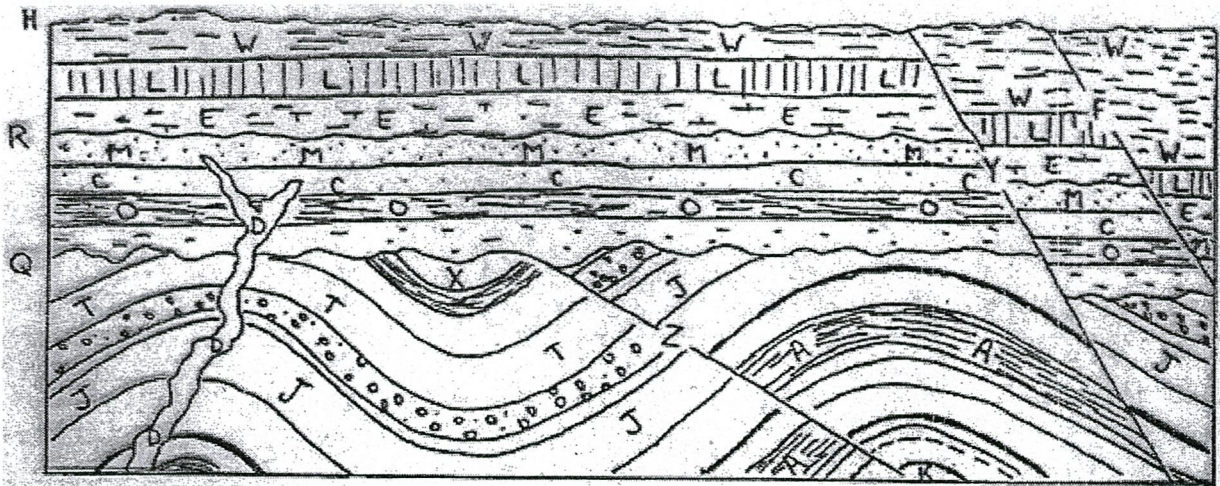
1. i. Write a brief description on different stages of the evolution of Oceanography (10 marks)
ii. Lamont Doherty has the world largest core repository. Write a brief essay on its specialty, including a paragraph on importance of core repositories. (15 marks)

2. i. Briefly describe UNCLOS (10 marks)
ii. What are the challenges for the Sri Lanka's claim to expand its legal continental shelf? (15 marks)

3. Write short notes on any **Four (04)** of the following (25 marks)
 - a. Big bang theory
 - b. Geologic time table
 - c. Marine diatoms
 - d. Submersible vehicles used in Oceanography and Marine Geology
 - e. Difference between legal continental shelf and Continental margin

4. Explain the differences between any **Two (02)** phrases given below with appropriate drawings if necessary. (25 marks)
 - a. Folding and Faulting
 - b. Cosmological Nucleosynthesis and Stellar Nucleosynthesis
 - c. Angular Unconformity and Nonconformity

5. Using the figure given below answer the questions i to iii



- i. Rank each of the beds A, K, T, W, L, M, E, C, D, and O based on their age of deposition (Youngest rock = 1, and oldest rocks = 10) (5 marks)
- ii. Briefly describe the events D, Q, Y, and Z (10 marks)
- iii. Using the principles used in relative dating, describe geological evolution process shown in the above figure. (10 marks)

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- i. Distinguish the groups of bottom-dwelling marine organisms (8 marks)
- ii. Compare the marine and terrestrial life (8 marks)
- iii. Briefly describe the zonation of pelagic environment (9 marks)

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