



UNIVERSITY OF RUHUNA

FACULTY OF FISHERIES AND MARINE SCIENCES & TECHNOLOGY

Academic Year 2023/2024

Bachelor of Science Honours in Marine and Freshwater Sciences Degree

Level III Semester II Examination – April /May 2025

OCG 3261 – Indian Ocean and Bengal Fan

Time: 01 hour

Answer only Two (02) Questions including Question No. 01

1.
  - i. Briefly describe the significance of the Indian Ocean. (05 Marks)
  - ii. Many refer to Sri Lanka as a tiny island in the Indian Ocean. Do you agree with it? Give reasons. (05 Marks)
  - iii. Using labeled diagrams briefly describe the prominent physiographic features of the Indian Ocean. (10 Marks)
  - iv. Describe in detail the evolution of the Bengal Fan and its channel system through geological time. Use labeled diagrams where necessary. (25 Marks)
  - v. List ten (10) islands in the Indian Ocean excluding Sri Lanka. (05 Marks)

2. Write short notes on the following

- i. Key tectonic events occurred as India moved from its position in Gondwana to its current location.
- ii. Strategic Geography and Geopolitical -Economic Significance of the Strait of Hormuz and the Strait of Bab el-Mandab.
- iii. Deep sea nonliving resources in the Indian Ocean
- iv. Formation of deep-sea turbidites and their economic significance.
- v. Member states and objectives of the Indian Ocean Rim Association (IORA)

(10 marks \* 05 = 50 Marks)

3.

- i. Identify three (03) major hot spots in the Indian Ocean and explain the physiographic features formed by any two of them. (25 Marks)
- ii. "The Indian Ocean is a region with rich marine living resources and will supports the blue economy in the future." Justify the statement. (25 Marks)

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