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**The Assam Royal Global University, Guwahati**

Royal School of Environmental and Earth Sciences

M.A./M.Sc. Geography 4<sup>th</sup> Semester

Semester End Examination, June 2023

Course Title: Oceanography and hydrology

Course Code: GEO164C402

**Time: 3 Hours**

**Maximum Marks: 70**

**Note: Attempt all questions as per instructions given.**

*The figures in the right-hand margin indicate marks.*

**Section – A**

1. Attempt **all** questions. (Maximum word limit 50) **2 x 8**
- a. Define sea floor spreading.
  - b. Write the names of all major tectonic plates.
  - c. What do you mean by hypsometric curve?
  - d. What is continental shelf?
  - e. Define coral reef.
  - f. What is Humboldt current?
  - g. What do you mean by condensation?
  - h. Define precipitation.

**Section – B**

2. Attempt **any two** of the following: **6 x 2**
- a. Explain the mechanism of plate tectonics.
  - b. Discuss sea floor spreading in detail.
  - c. Mention about the factors which affect the distribution of sea surface temperature.
3. Attempt **any two** of the following: **7 x 2**
- a. What is a submarine canyon? How they are formed?
  - b. Discuss different theories related to formation of coral reef.
  - c. Explain the configuration of ocean floor of Atlantic Ocean.
4. Attempt **any two** of the following: **7 x 2**
- a. Discuss the ocean currents of Indian ocean.
  - b. Explain various theories related to formation of tide.
  - c. Give a detail account of the ocean currents of Pacific Ocean.
5. Attempt **any two** of the following: **7 x 2**
- a. Explain hydrological cycle in detail.
  - b. Give a detailed account of the global fresh water resources.
  - c. Explain the global water budget with a suitable diagram.