

QP Code: 23/PT/15/IB

**POST-GRADUATE COURSE**

**Term End Examination — June, 2023/December, 2023**

**GEOGRAPHY**

**Paper-IB : HYDROLOGY & OCEANOGRAPHY**

Time : 2 hours ]

[ Full Marks : 50

Weightage of Marks : 80%

**Special credit will be given for precise and correct answer. Marks will be deducted for spelling mistakes, untidiness and illegible handwriting. The figures in the margin indicate full marks.**

Answer any *three* questions from Section-A selecting at least *one* from each unit. Question No. 7 in Section-B is compulsory.

**Section - A**

10 × 3 = 30

**[ Unit-I : Hydrology ]**

1. What is surface runoff ? Describe the factors affecting surface runoff.  
2 + 8
2. Discuss the process through which global hydrological cycle works and comment on the concept of global water balance.  
7 + 3
3. Define the term 'Wetland'. Give an account of the classification and functions of Wetlands with special reference to East Kolkata Wetland.  
1 + 5 + 4

**[ Unit-II : Oceanography ]**

4. What are the unique features about mangroves ? Classify coral reef. 5 + 5
5. What are the organic and inorganic economic resources found in the oceans ?  
5 + 5
6. Classify submarine canyons and discuss their characteristics. 4 + 6

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[ Turn over

**Section - B**

7. Write short notes on any *five* of the following : 4 × 5 = 20
- a) The Water Framework Directive.
  - b) Storm hydrograph.
  - c) Factors controlling oceanic salinity.
  - d) Atmospheric moisture.
  - e) Factors affecting the hydrograph.
  - f) Drainage basin as a hydrological unit.
  - g) Significance of T-S curve.
  - h) Threats of coral reefs.
  - i) Formation processes of mid-oceanic ridges.
  - j) Cosmogenous oceanic deposits.
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