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PG CBCS
M.A. /M.Sc. Semester-I Examination, 2020
GEOGRAPHY
 PAPER: GEO 102
 (HYDROSPHERIC SCIENCES)

Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks.
 Candidates are required to give their answers in their own words as practicable.
 Illustrate the answers wherever necessary.

Write the answer for each unit in separate sheet

GROUP/UNIT - A
 (GEO 102.1: OCEANOGRAPHY)

Answer any two questions from the following (within 500 words): **10 X 2=20**

1. Explain the characteristics of major subdivisions of the marine environment with reference to ocean circulation.
2. Highlight the significance of tidal circulations in marine and coastal ecosystem.
3. Classify the ocean sediment type on the basis of their origin and size.
4. Explain the role of coral reefs as coastal habitats.
5. Explain the characteristics of water mass and their distribution.
6. Discuss the role of salt marshes and mangrove swamps as a dynamic coastal habitat.

GROUP/UNIT - B
 (GEO 102.2: HYDROLOGY)

Answer any two questions from the following (within 500 words): **10 X 2=20**

1. Explain the steps for constructing area-depth curve mentioning its use and limitations.
2. Elucidate the procedure for estimating rainfall volumes in a river basin with special reference to Theissen Network Analysis.
3. Give an outline about the factors of ground water flow in a drainage basin.
4. Using suitable diagrams, explain how rock type and vegetation can affect the shape of a storm hydrographs of a drainage basin.
5. Elucidate the steps for constructing unit hydrograph.
6. How is deforestation related to basin lag time? Explain with suitable examples.
