

**Bajkul Milani Mahavidyalaya**

**(Vidyasagar University)**

**Department of Geography (UG & PG)**

**M. A. / M. Sc., 1<sup>st</sup> Semester**

**End Term Examination -2020-'21**

**Subject: Geography**

**Paper: GEO 102: Hydrospheric Science**

**(Use separate answer script for each unit of the paper)**

**Full Marks: 40**

**Time: 2-Hours**

*(Candidates are required to give their answers in their own words as far as practicable)*

**Unit: GEO 102.1: Oceanography**

**Answer any one question**

**1 x 20=20**

1. Describe the major subdivisions of Pelagic and Benthic Zone of marine environment. 20
2. Classify marine sediments based on the source and nature of deposits. 20
3. Explain the origin and role of coral reefs as the coastal habitat in the oceanic Islands. 20
4. Discuss the role of mangroves as a coastal habitat along the shore fringes of deltaic Sundarban. 20
5. Explain the role of human impacts in modification of coastal processes and environment. 20

**Unit: GEO 102.2: Hydrology**

**Answer any one question:**

**1 x 20 = 20**

1. Briefly discuss different storage structures of ground water with suitable illustration. 20
2. Enumerate different components of hydrograph with illustration. How do you separate base flow of a hydrograph from total discharge? 20
3. Explain with illustration, different methods for estimating infiltration. 20
4. What are the suitable methods for estimating precipitation? 20
5. Explain why rooftop water harvesting is important in the tropical region in the context of water scarcity. 20