

**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 104: Environmental Geography**

**(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 104.1: Basics of Environment and Ecology**

**Answer any one question**

**1 x 20=20**

1. Analyze the functions of biotic and abiotic factors to maintain the environmental system. 20
2. Illustrate the salient features of single channel energy flow model with example. 20
3. Discuss the role of Nitrogen cycle in maintaining mass and energy balance in ecosystem. 20
4. Enumerate the causes of biodiversity threat and write about the conservation processes. 20
5. Describe the components and functioning of forest ecosystem. 20

**Unit: GEO 104.2: Landscape Ecology and Planning**

**Answer any one question:**

**1 x 20 = 20**

1. Discuss the role of landscape ecology in planning and development processes. 20
2. Write the principle and importance of Shanon Diversity Index and Shimpson Diversity Index with the suitable example. 20
3. Discuss the landscape as a dynamic entity. 20
4. Describe the magnitude and intensity of deforestation as the anthropogenic modification of forest landscape. 20
5. Evaluate the importance of Traditional Ecological Knowledge (TEK) in conserving the landscape ecology with suitable example? 20