

**Department of Civil Engineering**

**NIT Jamshedpur**

Course Code: **EC801**

Branch: ECE (2016 Batch)

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Course Title: **Basic Environmental Engineering**

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**Home Assignment-1**

1. (a) What do you understand by 'per capita demand' of water? How is it determined?
- (b) Discuss various factors that affect the rate of demand.
- (c) The following is the population data of a city, available from past census records. Determine the population of the city in 1991 by (a) Arithmetic increase method, (b) Geometrical increase method, (c) Incremental increase method.

Year	1911	1921	1931	1941	1951	1961	1971
Population	14,000	18,500	28,800	43,500	59,500	70,000	76,100

2. (a) Describe the natural resources briefly. Discuss the commercial uses of forest resources.
- (b) Describe the positive ecological impacts, negative ecological impacts, positive socio-economic impacts and negative socio-economic impacts of big dams, briefly.
3. (a) List various renewable and non-renewable natural resources.
- (b) List various natural hazards with emphasis on earthquake.
- (c) What are the various pollutions? Discuss noise pollution in details.
- (d) Impact assessment of Corona Virus on global economy in general and Indian economy in particular
- (e) Impact assessment of Corona Virus on present and future employment opportunity