

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-3

1. List the Course contents of Basic Environmental Engineering. Also enumerate the most likely topic by you for understanding the ethics and core values of sustainable development.
2. What are the various types of renewable and non-renewable resources? Enumerate impact of population, rate of consumption and technology for sustainability for robust economic growth. Discuss the merits and demerits of wind energy.
3. Define pollution. What are the various pollutions? Enumerate in details the Noise pollution and its impact on human health.
4. (a) The following data have been noted from the census department. Calculate the probable population in the year 1970, 1980 and 1990.

Year	1930	1940	1950	1960
Population	8,000	12,000	17,000	22,500

(b) What are the various sources of Municipal Solid Wastes (MSW)? Enumerate the mode of Integrated Waste Management policy for Mitigation of MSW. Also outline the collection system of solid wastes for their effective disposal.

5. Write short notes on **topics** listed below:

- (i) Global Warming
- (ii) Rain Water Harvesting
- (iii) Ecosystems
- (iv) Greenhouse affects
- (v) Per Capita Demand of Water
- (vi) Disasters
- (vii) Biodiversity