

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Sem-II Examination July 2010

Subject code: 721801**Subject Name: Environmental Impact Assessment****Date: 05 /07 /2010****Time: 11.00am – 1.30pm****Total Marks: 60****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Establish the relationship between Sustainable Development and EIA. **04**
 (b) Define Sustainable Development and explain it on the basis of regional carrying capacity. **06**
 (C) Define 'Impact' **02**
- Q.2** (a) Describe key sustainability principles that will help moving in the direction of sustainable industrial development. **06**
 (b) Explain with help of appropriate example 'EIA as a four step activity'. Write significance of each step. **06**
- OR**
- (b) Give detailed explanation about 'Prediction of Impacts' by citing appropriate example **06**
- Q.3** (a) Define 'Environmental Attribute' and explain the need for developing list of relevant attributes. **06**
 (b) With the help of a neat diagram explain 'Value-function' graph and its application **06**
- OR**
- Q.3** (a) How is SEA different from EIA ? **04**
 (b) Explain prediction of impacts of an industrial area on water quantity. **04**
 (C) Why land impact assessment is considered important in a country like India ? **04**
- Q.4** (a) With the help of a neat diagram explain the procedure of obtaining environmental clearance as per EIA notification 2006. **08**
 (b) Briefly explain the difference between category 'A' and category 'B' projects. **04**
- OR**
- Q.4** (a) Discuss how approach to environmental management underwent changes in developed countries from time to time. **04**
 (b) Highlight the need for adopting the path of sustainable development (through EIA route) for developing countries. **04**
 (C) Explain environmental significance. **04**
- Q.5** (a) You are asked to explain to your Air Quality Assessment team the importance of Baseline Monitoring for a new 2000 MW power plant based on coal proposed at a distance of 10 km from the municipal limits of a city having population of 5 lakh. What will you include in your presentation? **08**
 (b) Discuss 'Air Quality Impact Mitigation' **04**
- OR**
- Q.5** (a) Illustrate six-step methodology for water impact assessment. **05**
 (b) Describe prediction of impacts on surface water of a large chemical project proposed to be located near a river that meets sea at a distance of 1 km **07**
