

GUJARAT TECHNOLOGICAL UNIVERSITY**M. E. - SEMESTER – II • EXAMINATION – WINTER • 2013****Subject code: 1721801****Date: 24-12-2013****Subject Name: Environmental Impact Assessment****Time: 10.30 am – 01.00 pm****Total Marks: 70****Instructions:**

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

- Q.1** (a) What type of information/data is required to describe the baseline environmental conditions? What is the significance of baseline data? **08**
(b) Enlist and explain the four steps in carrying out EIA. **06**
- Q.2** (a) Define ‘Sustainable Development’ and explain ‘Carrying Capacity based developmental planning’ to achieve Sustainable Development **07**
(b) Explain in detail the development and use of value function graphs for evaluation of impacts. **07**
- OR**
- (b) Write a note on the Detailed contents of EIA. **07**
- Q.3** (a) With the help of diagram, explain the relationship between human activities and environmental impact. **07**
(b) Define and explain giving examples primary, secondary and tertiary impacts. **07**
- OR**
- Q.3** (a) What are Environmental Attributes? Explain any one environmental attribute to describe air component of EIA. **07**
(b) Write short notes on: **07**
1. Network method 2. Descriptive checklist method
- Q.4** (a) Explain the procedure to be followed for obtaining environmental clearance as per EIA Notification 2006. **07**
(b) Differentiate between : **07**
(1) EIA and EIS
(2) Environmental Impact Analysis and Environmental Impact Assessment
- OR**
- Q.4** (a) Explain the following EIA methodologies: **07**
1. Matrix method. 2. Simple checklist method
(b) Highlight the advantages and disadvantages of public participation in the overall environmental clearance process for any project. **07**
- Q.5** (a) A large scale multipurpose dam is to be constructed across a perennial river. Enlist the probable environmental impacts and classify them. **07**
(b) Give the comments on “The Need of EIA” for developing country like India **07**
- OR**
- Q.5** (a) Prepare a matrix for constructing a highway project. **07**
(b) What are the probable impacts of a cement industry? Give the classification of the impacts. **07**
