

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 1721801**Date: 29-12-2012****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) Explain EIA as a four step activity. **07**
(b) Enlist the different methodologies for carrying out EIA and explain “Checklist method” in detail. **07**
- Q.2** (a) Establish the relationship between human activities and environmental impact with the help of diagram. **07**
(b) Define following terms from subject point of view : **07**
(i) Environment (ii) Impact (iii) Assessment
- OR**
- (b) Define the following with the help of an example: **07**
(i) Primary and secondary impacts.
(ii) Acceptable and non acceptable impacts
- Q.3** (a) Explain in detail the development and use of value function graphs for evaluation of impacts. **07**
(b) Write a note on “Baseline Study for EIA”. **07**
- OR**
- Q.3** (a) Explain the contents of “EIA Notification 2006”. **07**
(b) Explain Environmental Carrying Capacity based developmental planning with sketch. **07**
- Q.4** (a) Enlist and explain the steps for carrying out Water Impact Assessment studies. **07**
(b) Discuss the advantages and disadvantages of public participation in the Environmental Clearance process for any project. **07**
- OR**
- Q.4** (a) Enlist the primary sources of air pollution, which should be considered for Air Quality Assessment studies. **07**
(b) Express your views on the need of EIA for developing countries. **07**
- Q.5** (a) Prepare an impact identification matrix for a Thermal Power plant . **07**
(b) For a large dam project, write a note on ‘Social Impact Assessment’ **07**
- OR**
- Q.5** (a) A high way construction project is to be initiated connecting two important cities. Prepare a list of probable environmental impacts of the project and classify them. **07**
(b) For complete description of Dissolved oxygen as a water quality attribute , what type of information is required? **07**
