

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2017****Subject Code: 2181302****Date: 02/11/2017****Subject Name: Environmental Impact Assessment****Time: 02:30 PM TO 05:00 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) Define :Impact Assessment and Impact Statement **03**
 (b) State the objectives of EIA. **04**
 (c) Explain the different EIA methods and explain any one in detail. **07**
- Q.2** (a) Give the classification of impacts. **03**
 (b) Establish the relationship between human activity and environmental impact for deforestation. **04**
 (c) “EIA is a four step activity” Justify the statement. **07**
- OR**
- (c) Explain the detailed contents of EIA Report. **07**
- Q.3** (a) Enlist the players of EIA. Explain any one. **03**
 (b) Give the significance of value function graph with example. **04**
 (c) Explain EIA is an integral part of the planning and decision making process. **07**
- OR**
- Q.3** (a) Define and explain short term and long term impacts. **03**
 (b) Explain the importance of describing ‘land use’ in EIA. **04**
 (c) Describe in detail Biological and Socio-economic environment impacts of an Industrial Project **07**
- Q.4** (a) Differentiate between: Reversible impacts and irreversible impacts **03**
 (b) Why it is considered that EIS is the conclusion of EIA. **04**
 (c) Write a detailed note on role of EIA as an approach to achieve sustainable development. **07**
- OR**
- Q.4** (a) List the various types of data required to describe existing environmental conditions for impact assessment? **03**
 (b) Differentiate between EIA & Environmental Management Plan **04**
 (c) Explain “Interaction matrix” EIA method in detail. **07**
- Q.5** (a) What does SEIAA stand for? Explain the same. **03**
 (b) Describe factors affecting selection of site for Industries. **04**
 (c) Narrate in detail Environmental legislations India for EIA. **07**
- OR**
- Q.5** (a) Define with the help of example: Quantifiable & non quantifiable impacts. **03**
 (b) Explain the importance of mitigation in EIA. **04**
 (c) Write a short note on Environmental attributes. Enlist the Environmental categories and identify relevant environmental attributes under each category. **07**