

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE – SEMESTER–VIII • EXAMINATION – SUMMER • 2014**

**Subject Code: 181302****Date: 31-05-2014****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 EIA methods and explain briefly Beattle Columbus and matrix methods. **07**
- Q.2** (a) Define ‘Sustainable Development’. Enlist the methods to achieve sustainable development. Explain ‘Carrying Capacity based developmental planning’ to achieve Sustainable Development. **07**  
 (b) What is environmental impacts and also define the following with the help of an example. **07**  
 (i) Primary and secondary impacts  
 (ii) Acceptable and non acceptable impacts  
 (iii) Quantifiable and non quantifiable impacts.
- OR**
- (b) Differentiate between: **07**  
 (i) EIA and EIS  
 (ii) Environmental Impact Analysis and Environmental Impact Assessment
- Q.3** (a) Define Environmental Attributes. Enlist and explain environmental attributes in brief. **07**  
 (b) What are your views on ‘the need of EIA’ for developing countries? **07**
- OR**
- Q.3** (a) Explain the difference between environmental effects and impacts with appropriate example. **07**  
 (b) Enlist the drawbacks of EES method. **07**
- Q.4** (a) Enlist important players in EIA and define at least four. **07**  
 (b) Highlight the advantages and disadvantages of public participation in the overall environmental clearance process for any project. **07**
- OR**
- Q.4** (a) Establish the relationship between human activities and environmental impact with the help of diagram. **07**  
 (b) EIA- As An Integral Part of The Planning Process. Illustrate. **07**
- Q.5** (a) Explain the procedure to be followed for obtaining environmental clearance as per EIA Notification 2006. **07**  
 (b) A chemical industry is to be established on the banks of a perennial river. Prepare an impact identification matrix for the project. **07**
- OR**
- Q.5** (a) Enlist the requirements of good EIA method. **07**  
 (b) You are required to develop EIA report for proposed construction of an Express way project. As an assessor prepare a simple checklist of environmental parameters likely to be affected. **07**

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