

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE – SEMESTER- VII EXAMINATION-SUMMER 2023****Subject Code: 3171311****Date: 21/06/2023****Subject Name: Environmental Impact Assessment****Time: 10:30 AM TO 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.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) Define the term “Sustainable Development”. Explain its importance **03**  
(b) Highlight the importance of public participation in EIA. **04**  
(c) Enlist and explain the stages for getting Environmental Clearance as per EIA Notification 2006. **07**

- Q.2** (a) Enlist the effects of Ad hoc/Non harmonious development. **03**  
(b) What is baseline study? What are the points to be kept in mind while doing baseline study? **04**  
(c) Define the term “Carrying Capacity”. Write a note on Carrying Capacity based development. **07**

**OR**

- (c) Prepare a checklist of likely environmental impacts for a proposed Construction project. **07**

- Q.3** (a) Explain primary, secondary and tertiary impacts with examples. **03**  
(b) Enlist the Sustainable Development Goals and explain any one **04**  
(c) Explain EIA as a four step activity. **07**

**OR**

- Q.3** (a) Based on acceptability, explain how impacts can be classified, giving relevant examples. **03**  
(b) Write down the specific and general conditions for categorizing industries as per EIA Notification 2006. **04**  
(c) Write a note on Detailed contents of EIA. **07**

- Q.4** (a) Write a note on constitution of SEIAA. **03**  
(b) What is value function graph? Explain its importance in EIA process. **04**  
(c) Explain the different types of Checklist methods for EIA. **07**

**OR**

- Q.4** (a) What is TOR? Explain its importance in Environmental Clearance process. **03**  
(b) With the help of a neat sketch, establish relationship between human activity and its environmental impacts. **04**  
(c) Explain Battelle EES method of EIA. **07**

- Q.5** (a) As per EIA Notification, explain which projects require prior Environmental Clearance. **03**  
(b) Enlist the environmental components/ attributes likely to be affected by mining project. Explain any one. **04**  
(c) Write a note on Environmental Management Plan **07**

**OR**

- Q.5** (a) Highlight the difference between primary data and secondary data for EIA process. **03**
- (b) Write a note on Matrix methodology **04**
- (c) Enlist the Environmental Attributes and explain any one. **07**

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