

GUJARAT TECHNOLOGICAL UNIVERSITY**BE – SEMESTER- VII EXAMINATION-SUMMER 2023****Subject Code: 3170625****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) State the objectives of EIA **03**
 (b) Explain the terms screening and scoping. **04**
 (c) What is sustainable development? Enlist the methods to achieve sustainable development. **07**
- Q.2** (a) Define: Impact Assessment and Impact Statement. **03**
 (b) Enlist the data to be collected for baseline monitoring and explain the points to be kept in mind during data collection. **04**
 (c) Enlist the detailed contents of EIA and explain any two **07**
- OR**
- (c) Enlist the different agencies for EIA and explain their roles. **07**
- Q.3** (a) Classify giving examples the impacts based on acceptability. **03**
 (b) State the principles of sustainable development. **04**
 (c) Discuss various direct and indirect impacts likely to occur for typical (i) Land Cleaning Activity and (ii) Road Construction Activity. **07**
- OR**
- Q.3** (a) Write a note on relationship between man's action, environmental effects and environmental impacts. **03**
 (b) Write a note on Environmental Monitoring Programme. **04**
 (c) Write a short note on Environmental attributes. Enlist the Environmental categories and identify relevant environmental attributes under each category. **07**
- Q.4** (a) Explain the importance of EIA as an integral part of decision making process **03**
 (b) Differentiate giving examples: Quantifiable and non-quantifiable impacts. **04**
 (c) Explain the different types of checklist methods for EIA. **07**
- OR**
- Q.4** (a) Explain Environmental Cost Benefit Analysis. **03**
 (b) Enlist four short term and four long term impacts of mining project. **04**
 (c) Narrate in detail Environmental legislations in India for EIA. **07**
- Q.5** (a) Enlist the requirements of a good EIA method. **03**
 (b) Explain the importance of public participation in EIA process. **04**
 (c) Explain the latest amendment of EIA notification. **07**
- OR**
- Q.5** (a) Describe in detail Biological environment impacts of a Construction Project. **03**
 (b) List the steps that are to be followed when conducting an EIA for air environment. **04**
 (c) Discuss different activities in a major road laying project likely to have impacts on soil and ground water environment. **07**
