

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2023

Subject Code:3174029**Date:16-12-2023****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.

MARKS

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|------------|------------|---|-----------|
| Q.1 | (a) | Define the following terms: (I) Environmental Impact Assessment; (ii) Environmental Impact Statement (iii) Terms of Reference | 03 |
| | (b) | Why does an EIA need to occur? | 04 |
| | (c) | Describe various models for the prediction of impact on Noise and Land Environment. | 07 |
| Q.2 | (a) | What are the limitations in implementation of EIA? | 03 |
| | (b) | What is the difference between EIA and SEA? | 04 |
| | (c) | What is Baseline study? What is its importance in EIA? How is baseline study carried out? | 07 |
| OR | | | |
| | (c) | Explain the different EIA approaches and explain them in detail. | 07 |
| Q.3 | (a) | Differentiate between primary impacts, secondary impacts, and tertiary impacts. | 03 |
| | (b) | Make a brief note on: Environmental Policy System | 04 |
| | (c) | Describe in detail Biological and Socio-economic environment impacts of an Industrial Project | 07 |
| OR | | | |
| Q.3 | (a) | What are private laws and public laws? | 03 |
| | (b) | Explain the importance of describing 'land use' in EIA | 04 |
| | (c) | What is the importance of analysis of alternatives in EIA? | 07 |
| Q.4 | (a) | What is Project Description? | 03 |
| | (b) | Why it is considered that EIS is the conclusion of EIA | 04 |
| | (c) | Classify Environmental impacts based on desirability and time scale with examples | 07 |
| OR | | | |
| Q.4 | (a) | What are the advantages of Leopold matrix method? | 03 |
| | (b) | Explain the different types of checklists methods for EIA. | 04 |
| | (c) | Describe proposed model for EIA study on Air Environment. | 07 |
| Q.5 | (a) | What is environmental auditing? | 03 |
| | (b) | Give a brief detail on environmental clearance procedure in India. | 04 |
| | (c) | Explain the procedure for getting environmental clearance. | 07 |
| OR | | | |
| Q.5 | (a) | Write down the procedure for Environmental Clearance with timeline. | 03 |
| | (b) | Explain the different types of audits. | 04 |
| | (c) | Justify that the EIA is an integral part of the planning and decision-making process | 07 |
