

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2022

Subject Code:3171311**Date:16-01-2023****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) State the objectives of EIA. | 03 |
| | (b) Explain the concept of Sustainable Development. | 04 |
| | (c) Establish the relationship between human activity and environmental impact for deforestation. | 07 |
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| Q.2 | (a) Enlist the players of EIA. Explain any one. | 03 |
| | (b) Explain the importance of mitigation in EIA. | 04 |
| | (c) Explain EIA is an integral part of the planning and decision making process. | 07 |
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| OR | | |
| | (c) “EIA is a four step activity” Justify the statement. | 07 |
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| Q.3 | (a) Give the classification of impacts in detail. | 03 |
| | (b) State two points of difference between adhoc development and harmonious development. | 04 |
| | (c) Differentiate between Rapid and Comprehensive EIA. Also propose the criteria for Rapid & Comprehensive EIA. | 07 |
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| OR | | |
| Q.3 | (a) Why it is considered that EIS is the conclusion of EIA. | 03 |
| | (b) What is Baseline study? What is its importance in EIA? How is baseline study carried out? | 04 |
| | (c) Write a short note on Environmental attributes. Enlist the Environmental categories and identify relevant environmental attributes under each category. | 07 |
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| Q.4 | (a) State the principles of sustainable development. | 03 |
| | (b) Differentiate between: Reversible impacts and irreversible impacts | 04 |
| | (c) EIA is anti-development activity: a myth or fact? Justify the statement. | 07 |
| | | |
| OR | | |
| Q.4 | (a) Explain the terms screening and scoping. | 03 |
| | (b) Differentiate between short term and long term impacts. | 04 |
| | (c) Enlist the different methods of EIA and explain any one in detail. | 07 |
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| Q.5 | (a) What is the role of public participation in EIA process? | 03 |
| | (b) Give the significance of value function graph with example. | 04 |
| | (c) Discuss various direct and indirect impacts likely to occur for typically for (i) Land Cleaning Activity and (ii) Road Construction Activity | 07 |

OR

- Q.5** (a) What does SEIAA stand for? Explain the same. **03**
(b) Which type of projects come under B2 category and why? **04**
(c) Write a brief note on: “Need of EIA for developing countries, especially India”. **07**
