

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2021****Subject Code:3170625****Date:17/12/2021****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) | Justify the Statement: “EIA is an integral part of the Planning and Decision-making process.” | 04 |
| | (c) | Enlist and Explain various Environmental Impacts in detail. | 07 |
| Q.2 | (a) | What does SEIAA stand for? Explain the same. | 03 |
| | (b) | Describe Environmental Cost Benefit Analysis in detail. | 04 |
| | (c) | Explain Environmental Monitoring in detail. | 07 |
| | | OR | |
| | (c) | Enlist the detailed contents of EIA and explain any three in detail. | 07 |
| Q.3 | (a) | Explain the importance of describing ‘land use’ in EIA. | 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) | Write a short note on Environmental attributes. Enlist the Environmental categories and identify relevant environmental attributes under each category. | 07 |
| | | OR | |
| Q.3 | (a) | Highlight the difference between primary data and secondary data for EIA process. | 03 |
| | (b) | Write a note on: Environmental Setting. | 04 |
| | (c) | What is Baseline study? What is its importance in EIA? How is baseline study carried out? | 07 |
| Q.4 | (a) | Explain about various water models for EIA. | 03 |
| | (b) | What are the criteria used for selecting best EIA method? | 04 |
| | (c) | Explain the different EIA methods and explain any one in detail. | 07 |
| | | OR | |
| Q.4 | (a) | Explain the matrix methodology for EIA. | 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) | As per EIA notification 2006, which projects require prior environmental clearance. | 03 |
| | (b) | What is the importance of public participation in EIA process? | 04 |
| | (c) | Explain the procedure for obtaining environmental clearance as per EIA notification 2006. | 07 |
| | | OR | |
| Q.5 | (a) | Explain the purpose of EIA notification 2006. | 03 |
| | (b) | Highlight the short term and long term impacts of construction of highway. | 04 |
| | (c) | Prepare a check list of probable impacts of construction and operation phase of a thermal power plant. Classify the impacts. | 07 |

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022****Subject Code:3170625****Date:14/06/2022****Subject Name:Environmental Impact Assessment****Time:02:30 PM TO 05:00 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
Q.1	(a) State the concept of Environmental Impact Assessment.	03
	(b) How Categorization of projects is done in EIA	04
	(c) Discuss the Environmental cost benefit analysis of a project	07
Q.2	(a) Why analysis of alternatives in EIA is required?	03
	(b) Differentiate the effect of impacts for Air Environment and Water Environment	04
	(c) Discuss the procedure of Monitoring of physical environmental parameters in EIA	07
	OR	
	(c) Write a Case study on EIA for Textile Industry	07
Q.3	(a) Comment on Environmental Impact Analysis	03
	(b) Discuss- EIA as an Integral Part of The Planning Process	04
	(c) Write Environment attributes for air, water and soil.	07
	OR	
Q.3	(a) How to write Environmental Impact Statement?	03
	(b) Why, defining the Environmental Setting is needed?	04
	(c) Describe various models for the prediction of impact on Noise and Land Environment	07
Q.4	(a) Discuss points of Additional studies in EIA	03
	(b) Enlist detailed Contents of EIA	04
	(c) Describe anticipated environmental impacts and mitigation measures required to overcome them.	07
	OR	
Q.4	(a) What is Project Description?	03
	(b) How to do the description of the base line Environment?	04
	(c) Define baseline data and discuss how to collect and interpret the baseline data for environmental attributes.	07
Q.5	(a) How Public participation is important in environmental decision making process?	03
	(b) State salient features of EIA notification September 2006	04
	(c) Discuss a Case study on EIA for one Infrastructure project	07

OR		
Q.5	(a) Describe the amendments of EIA notification September 2006	03
	(b) How to predict impacts on water environment in EIA?	04
	(c) Explain the procedure for getting environmental clearance.	07
