

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2023****Subject Code:3170625****Date:01-12-2023****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
Q.1	(a) What is Environmental Impact and Environmental Impact Analysis?	03
	(b) What is the purpose of EIA and EIS?	04
	(c) Explain Environmental Impact Assessment process in brief.	07
Q.2	(a) Define public consultation as part of additional studies for EIA.	03
	(b) What are the two methods of environmental Cost Benefit analysis?	04
	(c) What procedures should be conducted for analysis of alternatives?	07
	OR	
	(c) Write a short note on mitigation measure for anticipated environmental impacts.	07
Q.3	(a) What are the objectives of environmental monitoring?	03
	(b) How is the baseline environment data collected?	04
	(c) How to assess the existing environmental status in the project area?	07
	OR	
Q.3	(a) What are the models used to predict the environmental impact?	03
	(b) Explain any two attributes which should be considered in metrological condition study.	04
	(c) Explain any one model to predict environmental impact on air environment.	07
Q.4	(a) What is the purpose of Environmental Impact Evaluation?	03
	(b) Describe types of mitigation measures in EIA.	04
	(c) Describe proposed model for EIA study on water Environment.	07
	OR	
Q.4	(a) Explain with example the method of a network analysis in methodology study for EIA.	03
	(b) Explain ad-hoc and overlays methods of environment impact identification.	04
	(c) Describe proposed model for EIA study on Noise Environment.	07
Q.5	(a) What is EIA Amendment?	03
	(b) Discuss in brief categorization of projects w.r.t. EIA.	04
	(c) Explain the procedure for obtaining environmental clearance as per EIA notification 2006.	07
	OR	
Q.5	(a) When is Environmental clearance required?	03
	(b) What is public participation in environmental decision-making?	04
	(c) Write EIA Case study on fertilizer industry with relevant details.	07
