

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY GURAJADA VIZIANAGARAM**  
**III B. Tech I Semester Regular/Supplementary Examinations, April/May -2025**  
**ENVIRONMENTAL IMPACT ASSESSMENT**  
**(CIVIL ENGINEERING)**

Time: 3 hours

Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**

All Questions Carry Equal Marks

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		<b><u>UNIT-I</u></b>	
1.	a)	Explain the key objectives of Environmental Impact Assessment (EIA).	[7M]
	b)	Describe the screening and scoping stages in the EIA process.	[7M]
		(OR)	
2.	a)	Discuss the importance of public participation in the EIA process.	[7M]
	b)	Explain how Geographical Information Systems (GIS) are used in EIA studies.	[7M]
		<b><u>UNIT-II</u></b>	
3.	a)	Describe the matrix method for impact assessment.	[7M]
	b)	Explain the methodology for assessing the impact on air quality.	[7M]
		(OR)	
4.	a)	List and explain the network analysis method in EIA.	[7M]
	b)	Discuss the factors to be considered while defining the project's area of influence.	[7M]
		<b><u>UNIT-III</u></b>	
5.	a)	Describe mitigation measures for noise pollution impacts.	[7M]
	b)	Discuss the use of environmental quality standards in impact assessment.	[7M]
		(OR)	
6.	a)	Explain the steps involved in predicting and assessing impacts on the biological environment.	[7M]
	b)	Write a detailed note on the assessment of impacts on hydrological resources.	[7M]
		<b><u>UNIT-IV</u></b>	
7.	a)	Differentiate between primary and secondary impacts in socio-economic impact analysis.	[7M]
	b)	Explain the significance of environmental management plans.	[7M]
		(OR)	
8.	a)	Explain the process of impact prediction and uncertainty analysis.	[7M]
	b)	Discuss the environmental impacts of urbanization.	[7M]
		<b><u>UNIT-V</u></b>	
9.	a)	Write a short note on environmental clearance procedures.	[10M]
	b)	Discuss the components and preparation of an EIA report.	[4M]
		(OR)	
10.	a)	Briefly explain the concept of environmental audit and its objectives.	[7M]
	b)	Explain a case study demonstrating the EIA process for a highway project.	[7M]

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