Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2023

	-	ect Code:3171311 Date:01-12-202	23
7	Subject Name: Environmental Impact Assessment Time: 10:30 AM TO 01:00 PM Instructions:  Total Mark		70
1	nstr uc	<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> <li>Simple and non-programmable scientific calculators are allowed.</li> </ol>	
Q.1	(a) (b) (c)	What is sustainable development? Enlist the methods to achieve sustainable development and explain any two. Highlight the relationship between man's action, environmental effects and impact with the help of a labeled flow diagram.	03 04 07
Q.2	(a) (b) (c)	Enlist the results of non-harmonious development.  Differentiate between Rapid and comprehensive EIA.  Enlist the four steps of EIA and explain the significance of each step.  OR	03 04 07
Q.3	(c) (a) (b)	Enlist the detailed contents of EIA and explain any five. Enlist and explain any three players of EIA. List the steps that are to be followed when conducting an EIA for air environment.	07 03 04
	(c)	What is a Baseline study? How is baseline study conducted? What is its importance in EIA?  OR	07
Q.3	(a)	Explain Leopold matrix method of EIA.	03
Ų.J	(b)	What are environmental attributes? Enlist the eight categories of attributes and explain anyone.	04
	(c)	How is EIA an integral part of decision-making process? Justify with an explanation.	07
Q.4	(a)	Explain giving examples: acceptable, conditionally acceptable and completely unacceptable impacts.	03
	(b)	Highlight the short term and long-term impacts of expansion project of a port and habour.	04
	(c)	Write a detailed note on Value function graphs. Draw graphs of any two parameters.	07
Q.4	(a)	OR Differentiate between primary impacts, secondary impacts and tertiary impacts.	03
<b>Q.4</b>	(b)	Enlist the requirements of a good EIA method.	03
	(c)	Explain various direct and indirect impacts likely to occur for typical (i) Land Cleaning Activity and (ii) Road Construction Activity.	07
Q.5	(a)	State in brief various biological environment impacts of a Construction Project.	03
	<b>(b)</b>	Write the importance of Environmental Cost Benefit analysis.	04
	(c)	State the merits and demerits of public participation in EIA process?  OR	07
Q.5	(a)	Differentiate between the terms screening and scoping.	03
	<b>(b)</b>	Classify the projects that require prior environmental clearance.	04
	(c)	Explain the important steps for obtaining environmental clearance as per EIA notification 2006.	07