Seat No.:	Enrolment No.
Seat No.:	Ellfollilent No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

BE - SEMESTER-IV (NEW) EXAMINATION - SUMMER 2022

Subj	ect	Code:3140609 Date:29-0	06-2022
Subj	ect ]	Name:Civil Engineering - Societal & Global Impact 📈 💙	
Time	:10	:30 AM TO 01:00 PM Total Ma	rks: 70
Instru			
		Attempt all questions.	
	2. 3.	Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	
		The same of the sa	MARKS
Q.1	(a)	What is pre-industrial society? What are its features?	03
	(b)	Write a brief note on "Green revolution in India".	04
	(c)	Describe recent major civil engineering breakthroughs and innovations.	07
Q.2	(a)	What is GIS? What are its causes and effects?	03
~	(b)		04
	(c)	Describe the importance of civil engineering in shaping the world.	07
		OR	
	(c)	Describe any three Modern Civil Engineering Marvels and Wonders.	07
Q.3	(a)	Write short note on: Hyper loops.	03
	(b)		04
	(c)	Discuss Codes and Standards Governing Infrastructure Development.  OR	07
Q.3	(a)	What is your vision for future Airports?	03
Q.J	(b)		04
	(c)	Describe Indian Government Initiatives for Water Conservation.	07
	(•)		0,
<b>Q.4</b>	(a)	Explain sanitary land filling method.	03
	(b)	What is solid waste management? What are its objectives?	04
	(c)	Write short note on: EIA	07
		OR	0.0
Q.4	(a)	Give Classification of air pollution.	03
	(b)	Explain global warming phenomena. What are its effects?	04
	(c)	Discuss innovation techniques for ensuring environmental sustainability.	07
		sustandonity.	
Q.5	(a)	Enlist various civil engineering projects.	03
	(b)	Discuss contribution of civil engineering to GDP in India.	04
	(c)		07
		engineering in civil engineering projects.	
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Q.5	(a)	Give benefits trends of Lean construction.	03
	(b)		04
	(c)	Give various measures for waste avoidance and reduction in	07

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