Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

		BE - SEMESTER-IV(NEW) EXAMINATION – WINTER 2022	2
Subj	ect	Code:3140609 Date:15-12	2-2022
Subj	ect]	Name:Civil Engineering - Societal & Global Impact	
Time:10:30 AM TO 01:00 PM Total Mark		rks:70	
Instru			
		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 GIS? Give applications of GIS.	03
	(b)		04
	(c)		07
	()		
Q.2	(a)	Describe the impotence of civil engineering in shaping the world.	03
	(b)		04
	(c)		07
	` /	smart cities.	
		OR	
	(c)	Describe recent major civil Engineering breakthroughs and innovation.	07
Q.3	(a)	Discuss future innovations at airports?	03
	(b)	Write short note on Smart future Road and Railway.	04
	(c)	Discuss in detail various methodologies for ensuring Sustainability in	07
		construction.	
		OR	
Q.3	(a)	Enlist and describe in short any 2 ancient and any 2 modern Civil	03
		engineering Marvels	
	(b)		04
	(c)	What are the improvements in the technology of underground tunnel	07
		construction?	
Q.4	(a)	· · · · · · · · · · · · · · · · · · ·	03
	(b)		04
	(c)	•	07
		OR	
Q.4	(a)	· · · · · · · · · · · · · · · · · · ·	03
	(b)	_	04
	(c)		07
		controlling floods.	
0.5	(.)	Emploin management for all mosts as a total in basile	02
Q.5	(a)	•	03
	(b)	• •	04
	(c)		07
		India.	
0.5	(-)	OR What is the role of Universe Arts Commission?	02
Q.5	(a)		03
	(b)	Write a short note on societal and global impact of civil Engineering. What is EIA? What are the purposes of EIA? Explain stages of EIA.	04 07
	(c)	what is LiA: what are the purposes of EIA: Explain stages of EIA.	U/
