Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subj	ect C	Code:3170628 Date:06/06/2022	ı
Subj	ect N	Name:Infrastructure for smart Cities	
		30 PM TO 05:00 PM Total Marks: 70	
Instru			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
		Simple and non-programmable scientific calculators are allowed	
Q.1	(a)	Enlist the objectives of smart cities.	03
	(b)	Describe the features of smart cities.	04
	(c)	Explain the concept of smart city. What are the requirements of smart cities?	07
Q.2	(a)	Write about the economic benefits of green building.	03
	(b)	What is green building? Explain concept of green building.	04
	(c)	Discuss key technologies needed for smart city.	07
		OR	
	(c)	Give advantages and disadvantages of smart city.	07
Q.3	(a)	What is Intelligent Transportation System (ITS)?	03
	(b)	What is smart mobility and how it can be improved?	04
	(c)	Give your views on road safety policies.	07
		OR	
Q.3	(a)	What is disaster management cycle?	03
	(b)	Write about the application of GIS in transportation.	04 07
	(c)	Explain the concept of E-ticketing.	U/
Q.4	(a)	Explain different types of cyber threats.	03
	(b)	What are the issues and challenges with existing urban sanitation system?	04
	(c)	Write about the IOT based smart wastewater management system.	07
ΩA	(a)	OR Cive some suggestions to improve existing water conveyence system	03
Q.4	(a) (b)	Give some suggestions to improve existing water conveyance system. What is smart car? Give features of smart cars.	03
	(c)	Give recommendations for infrastructure improvement and vehicle technology	07
	(0)	for traffic safety.	0.
Q.5	(a)	What do you mean by smart water management?	03
	(b)	Explain how urbanization is connected to environment.	04
	(c)	Describe various flood mitigation measures.	07
		OR	
Q.5	(a)	What is smart city challenge?	03
	(b)	Describe flood forecasting and warning systems in India.	04
	(c)	Write a note on water resources conservation.	07
