GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - SUMMER 2025

Subject Code:3170214 Date:08-) 5-2025		
Su	bject	Name: Vehicle and Road Safety		
Time:02:30 PM TO 05:00 PM Total Mar			ks:70	
Ins	tructio			
	2. 3.	Figures to the right indicate full marks.		
	4.	Simple and non-programmable scientific calculators are allowed.	MARKS	
Q.1	(a)	Why do we need vehicle safety?	03	
	(b)	Explain the Causes of rear-end collision.	04	
	(c)	Write a short note on Bumper design for vehicle safety.	07	
Q.2	(a)	Explain Driving safety, Conditional safety, and Operating safety.	03	
	(b)	Explain traffic rules and regulations.	04	
	(c)	List the vehicle safety system and explain any two of them. OR	07	
	(c)	Write a short note on Vehicle safety rating in India.	07	
Q.3	(a)	Explain Exterior safety and Interior safety.	03	
	(b)	Discuss traffic rules and driving behavior.	04	
	(c)	Explain the road traffic accident scenario in India. OR	07	
Q.3	(a)	Explain the role of police in accident prevention.	03	
	(b)	Discuss road safety and its importance.	04	
	(c)	Describe various front and rear object detection systems in detail.	07	
Q.4	(a)	What is people's responsibility for accident prevention?	03	
	(b)	Explain provisions for disabled persons according to road safety.	04	
	(c)	Explain the antiskid braking system. OR	07	
Q.4	(a)	What is the role of policymakers and politicians in the prevention of accidents?	03	
	(b)	Explain the antiskid braking system.	04	
	(c)	Discuss the four E's of accident prevention.	07	
Q.5	(a)	What are the Government's efforts on road safety?	03	
	(b)	Explain preschool road safety education in detail.	04	
	(c)	Discuss crashes related to pedestrians and bicyclists. OR	07	
Q.5	(a)	Explain the importance of efforts done by Drivers and Official road safety body for the road safety.	03	
	(b)	Write a note on the celebration of the road safety seminar organized by students.	04	
	(c)	Explain the 5 P's of Road safety education	07	
