

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – SUMMER 2022****Subject Code:3170214****Date:14/06/2022****Subject Name:Vehicle and Road Safety****Time:02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. 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) Explain vehicle safety.	03
	(b) Discuss on road traffic accidents scenario in India.	04
	(c) Explain active safety and passive safety.	07
Q.2	(a) Define (1) Driving safety(2) Conditional safety (3) Operating safety	03
	(b) Explain road traffic scenario in India.	04
	(c) Short note on “deformation behaviour of vehicle body”.	07
	OR	
	(c) Explain vehicle safety rating in India.	07
Q.3	(a) Enlist name of active and passive safety equipment’s in vehicle	03
	(b) Describe automatic seat belt Tightener system	04
	(c) Describe electronic system to activate air bags	07
	OR	
Q.3	(a) What is the provision for provision for disabled in related to road safety?	03
	(b) Discuss on crashes related to pedestrian and bicyclists.	04
	(c) Explain different front and rear object detection system in detail.	07
Q.4	(a) Give some examples of the presentations on the road safety educations.	03
	(b) What is the importance of road safety?	04
	(c) Explain Multidisciplinary approach to planning for traffic safety and injury control.	07
	OR	
Q.4	(a) Enlist name of People responsible for accident prevention.	03
	(b) What is the role of engineering in road safety?	04
	(c) Short note on “antiskid braking system”.	07
Q.5	(a) Discuss policy of Govt.of India for Vulnerable road users.	03
	(b) Explain pre-school road safety education in details.	04
	(c) Explain 4 E’s of Accidents Prevention.	07
	OR	
Q.5	(a) Discussions on efforts done by Government on Road Safety.	03
	(b) Write a note on the celebration on road safety seminar organized by students.	04
	(c) Explain 5 P’s of Road safety education.	07
