GUJARAT TECHNOLOGICAL UNIVERSITY

ME – SEMESTER II (NEW) – • EXAMINATION – SUMMER 2016			
Subject Code: 2721104 Date: 31/05			2016
Subject Name: Automotive Chassis & Body Engineering			
Time:10:30 am to 01:00 pm Total Mark			s: 70
Instructions:			
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain the Rules and regulations for vehicle body design. Explain the different bodies used in Automobiles.	07 07
Q.2	(a) (b)	Explain in brief the importance of Recent safety measures in Vehicle design. Explain the application of wind tunnel technology in Automobiles. OR	07 07
	(b)	Explain the effects of forces and moments on vehicle body.	07
Q.3	(a)	Explain about the constructional details of Dashboard and bonnet.	07
	(b)	Explain about various loads acting on the chassis frame.	07
		OR	
Q.3	(a)	Explain about Idealized structure of Vehicle body.	07
	(b)	Explain the tests with scale models.	07
Q.4	(a)	Explain the various body optimization techniques for minimize drag.	07
	(b)	Explain the stress analysis in integral bus body.	07
Q.4	(a)	OR Explain the different methods of improving driver's visibility.	07
V. 4	(a) (b)	Discuss about flow visualization techniques.	07 07
Q.5	(a)	Explain about the vehicle body materials.	07
Q.J	(a) (b)	Explain the classification of coach work.	07 07
	(~)	OR	
Q.5	(a)	Give the difference between symmetric and asymmetric vertical loads.	07
	(b)	Explain the constructional details of roof and under floor of vehicle.	07
