GUJARAT TECHNOLOGICAL UNIVERSITY BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Subject Code: 160205Date: 24/10/2016Subject Name: Automobile Chassis and Body EngineeringTime: 10:30 AM to 01:00 PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			
Q.1	(a) (b)	Explain various types of vehicle drag Write a short note on Vehicle's Dash Board.	07 07
Q.2	(a) (b)	Explain wind tunnel testing for scaled model of any vehicle Explain Frontal offset & Rear types of vehicle crash tests OR	07 07
	(b)	Explain various types of bus bodies with neat sketch	07
Q.3	(a) (b)	Describe ways to improve visibility in a car Write a short note on "Vehicle Doors"	07 07
Q.3	(a) (b)	OR Explain various types of materials used for vehicle construction Explain vehicle painting process in detail	07 07
Q.4	(a) (b)	Explain various types of water leakage tests carried out on vehicles Differentiate between toughened glass & laminated glass OR	07 07
Q.4	(a) (b)	Describe with neat sketch – Dimensions of commercial vehicle driver's seat, in relation with various controls Explain various types of commercial vehicle bodies with neat sketches	07 07
Q.5	(a) (b)	Explain various Aerodynamic Aids for Optimization of vehicle body drag Explain various types of symmetric and asymmetric vertical loads OR	07 07
Q.5	(a)	Write a short note on Pneumatic equipment for passenger door opening & closing in Bus	07
	(b)	Explain passenger seat dimensions of bus	07
