Seat No.: Enrolment No GUJARAT TECHNOLOGICAL UNIVERSITY BE- VI th SEMESTER-EXAMINATION – MAY- 2012				
Subject code: 160205 Date: 19/05			5/2012	
Subject Name: Automobile Chassis and body engineering Time: 10:30 am – 01:00 pm Tot			otal Marks: 70	
 Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 				
Q.1	(a) (b)	Explain with figure the vehicle drag. Describe Aerodynamic aids for optimization of drag.		07 07
Q.2	(a) (b)	Explain safety requirements for car body. Write the difference between frame, chassis and body of a vehic OR	le.	07 07
	(b)	Draw and explain typical car body construction.		07
Q.3	(a) (b)	Classify types of bus body. Draw and explain bus body layout. Draw the diagram for coach work and coach construction and ex OR	cplain it.	07 07
Q.3	(a) (b)	Describe with figure the light commercial vehicle body. Explain with sketch the tipper body design.		07 07
Q.4	(a) (b)	Explain use of different metal sheets as vehicle body material. Describe the uses of plastics, FRP and GRP in bus body OR		07 07
Q.4	(a) (b)	Explain symmetric and asymmetric vertical loads in case of car loading. Describe idealized structure.		07 07
Q.5	(a)	Explain with a neat sketch the dash board and instrument vehicle.	panel of	07
	(b)	Describe the selection of paint and painting process of vehicle. OR		07
Q.5	(a)	Write the sources of body noises and explain the method elimination.	ls of its	07
	(b)	Explain selection of air conditioning equipment and its mouvehicle.	inting in	07
