Seat No.:	Enrolment No.

Su Ti	bject me: (struc 1.	GUJARAT TECHNOLOGICAL UNIVERSITY M. E SEMESTER – II • EXAMINATION – SUMMER • 2014 t code: 1721104 Date: 20-06-2014 t Name: Automotive Chassis and Body Engineering 02:30 pm - 05:00 pm Total Marks: 70 ections: Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Discuss about closed loop type of wind tunnel. Explain the following terms: (i) Under floor (ii) Bonnet	07 07
Q.2	(a) (b)	Discuss about classification of coach work. Discuss about various body optimization techniques for minimization of drag. OR	07 07
	(b)	Explain the concept of shear panel method.	07
Q.3	(a) (b)	Explain methods for improving driverøs visibility with neat sketch. Explain design of Chassis frame.	07 07
		OR	
Q.3	(a) (b)	Discuss about various types of forces and moments act on Automobile body. Discuss about stress analysis of bus body structure under bending and torsion.	07 07
Q.4	(a) (b)	Write short note on testing of body. Explain in brief flow visualization techniques. OR	07 07
Q.4	(a)	Explain about Dashboard of vehicle.	07
۷,,	(b)	Discuss about vehicle body materials.	07
Q.5	(a)	Explain distribution of load on vehicle structure.	07
	(b)	Discuss about constructional details of roof.	07

Q.5 (a) Discuss about constructional features of Automobile body.

(b) Write short note on vehicle drag.

OR

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