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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VIII.EXAMINATION - WINTER 2016

S	ubje	ect Code: 181907 Date: 24/10/2016 ect Name: Automobile Body Engineering(Department Elective II) : 02:30 PM to 05:00 PM Total Marks: 70	
	_	: 02:30 PM to 05:00 PM ctions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Draw the Bus body layout and explain function of each component of body. What is wind tunnel? Enlist types of wind tunnels and advantages of it.	07 07
Q.2	(a) (b)	Discuss various body optimization techniques and aerodynamic aids for optimization drag. Explain crash test and roll over test regulation for auto vehicles.	07 07
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	(b)	Discuss various methods for improving visibility and space in car design.	07
Q.3	(a) (b)	Explain types of metal sections and various insulation materials. Discuss "heating and ventilation systems" used in auto vehicles OR	07 07
Q.3	(a) (b)	Explain various parameters of driver's seating relation and to control. What is flat platform body? Explain it's Characteristics.	07 07
Q.4	(a)	Explain anti-corrosion methods and selection of paint & painting process for automobile body.	07
	(b)	Explain brief the entrance and exit location in the bus. OR	07
Q.4	(a)	Differentiate between toughened glass, sheet glass and laminated glass used in automobile.	07
	(b)	What is FRP and GRP? why used in automobile body give the merits and demerits.	07
Q.5	(a) (b)	Explain shear panel method for analysis of body loads. Discuss about interior trim, exterior trim and upholstery of automobile body. OR	07 07
Q.5	(a) (b)	Explain sources of body noises testing and method of elimination. Explain automobile body repairing tools. Discuss major and minor body repairs.	07 07
