Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI • EXAMINATION - WINTER 2013

Su	bject	Code: 160205 Date: 04-12-2013	
Ti	-	Attempt all questions.	
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Q.1	(a) (b)	Explain Wind tunnel Testing of Scale Model. Explain Different types of Vehicle Drag with neat Sketch.	07 07
Q.2	(a) (b)	Explain Roll over test to be performed for auto vehicles. Explain Heating and Ventilation System.	07 07
	(b)	OR Explain Crash test to be performed for auto vehicles.	07
Q.3	(a) (b)	Explain Detail classification of vehicle body. Describe with neat sketch Light commercial vehicle body. OR	07 07
Q.3	(a) (b)	Explain Drop side and Tipping body Design. Explain types of car body with neat sketch.	07 07
Q.4	(a) (b)	Explain Shear Panel method for determining stress analysis and body load. Explain Longitudinal and Symmetric load acting on vehicles. OR	07 07
Q.4	(a)	Write various Source of body noise and Explain Method of elimination body noise.	07
	(b)	Explain Concept of Idealized load carrying structure.	07
Q.5	(a) (b)	Explain difference between toughened glass, sheet glass and laminated glass. List different vehicle body material and Explain sheet steel and GRP. OR	07 07
Q.5	(a) (b)	Write short note on Corrosion protection of body. What is vehicle safety? Explain requirement and provision for vehicle safety.	07 07
