

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – WINTER 2013

Subject Code: 160205**Date: 04-12-2013****Subject Name: Automobile Chassis and Body Engineering****Time: 02:30 pm to 05:00 pm****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain Wind tunnel Testing of Scale Model. **07**
(b) Explain Different types of Vehicle Drag with neat Sketch. **07**
- Q.2** (a) Explain Roll over test to be performed for auto vehicles. **07**
(b) Explain Heating and Ventilation System. **07**
- OR**
- (b) Explain Crash test to be performed for auto vehicles. **07**
- Q.3** (a) Explain Detail classification of vehicle body. **07**
(b) Describe with neat sketch Light commercial vehicle body. **07**
- OR**
- Q.3** (a) Explain Drop side and Tipping body Design. **07**
(b) Explain types of car body with neat sketch. **07**
- Q.4** (a) Explain Shear Panel method for determining stress analysis and body load. **07**
(b) Explain Longitudinal and Symmetric load acting on vehicles. **07**
- OR**
- 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) Explain difference between toughened glass, sheet glass and laminated glass. **07**
(b) List different vehicle body material and Explain sheet steel and GRP. **07**
- OR**
- Q.5** (a) Write short note on Corrosion protection of body. **07**
(b) What is vehicle safety? Explain requirement and provision for vehicle safety. **07**
