

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Subject Code: 160205**Date: 24/10/2016****Subject Name: Automobile Chassis and Body Engineering****Time: 10:30 AM to 01:00 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 various types of vehicle drag **07**
(b) Write a short note on Vehicle's Dash Board. **07**
- Q.2** (a) Explain wind tunnel testing for scaled model of any vehicle **07**
(b) Explain Frontal offset & Rear types of vehicle crash tests **07**
- OR**
- (b) Explain various types of bus bodies with neat sketch **07**
- Q.3** (a) Describe ways to improve visibility in a car **07**
(b) Write a short note on "Vehicle Doors" **07**
- OR**
- Q.3** (a) Explain various types of materials used for vehicle construction **07**
(b) Explain vehicle painting process in detail **07**
- Q.4** (a) Explain various types of water leakage tests carried out on vehicles **07**
(b) Differentiate between toughened glass & laminated glass **07**
- OR**
- Q.4** (a) Describe with neat sketch – Dimensions of commercial vehicle driver's seat, in relation with various controls **07**
(b) Explain various types of commercial vehicle bodies with neat sketches **07**
- Q.5** (a) Explain various Aerodynamic Aids for Optimization of vehicle body drag **07**
(b) Explain various types of symmetric and asymmetric vertical loads **07**
- OR**
- Q.5** (a) Write a short note on Pneumatic equipment for passenger door opening & closing in Bus **07**
(b) Explain passenger seat dimensions of bus **07**
