

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER 2013****Subject Code: 160205****Date: 30-05-2013****Subject Name: Automobile Chassis and Body Engineering****Time: 10.30 am - 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) List down various types of car bodies and explain them in brief. **07**
(b) Describe dashboard of vehicle in detail **07**
- Q.2** (a) Define Drag and describe various types of vehicle drags **07**
(b) Write a note on car crash test **07**
- OR**
- (b) Explain frame construction of buses **07**
- Q.3** (a) Explain various types of bus bodies **07**
(b) Explain types of window glasses for vehicles with sketch **07**
- OR**
- Q.3** (a) Explain types of commercial vehicle bodies **07**
(b) Explain driver seat in commercial vehicle **07**
- Q.4** (a) Explain Symmetric, asymmetric and longitudinal loads in cars **07**
(b) Explain doors of cars in details **07**
- OR**
- Q.4** (a) Briefly describe painting process for vehicles in details **07**
Q.4 (b) List down various materials used in automobile construction and explain any two of them **07**
- Q.5** (a) Describe wind tunnel testing of a scaled model of a car **07**
(b) Explain various water leakage tests for vehicle **07**
- OR**
- Q.5** (a) Explain design of drivers cabin for commercial vehicles **07**
(b) (i) Draw various layouts of buses based on entry and exit locations **07**
(ii) Name few car body trim items
