GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI- EXAMINATION - SUMMER 2016

| Subject Name: Automobile Chassis and Body Engineering | | | Date:11/05/2016 | |
|---|------------|---|-----------------|----------|
| | | | Total Marks: 70 | s: 70 |
| | | Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks | | |
| Q.1 | (a) (b) | Explain asymmetric vehicle load acting on vehicle. Describe aerodynamic aids for optimization of drag. | | 07 07 |
| Q.2 | (a) (b) | Write a short note on car crash test. Write the difference between frame, chassis and body of a veh OR | | 07 07 |
| | (b) | Explain heating and ventilation system. | (| 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 various water leakage tests for vehicle. Describe driver seat dimension for car with sketch. | | 07 07 |
| Q.4 | (a) | Explain briefly GRP and FRP used in automobile body. | (| 07 |
| | (b) | Explain difference between toughened glass, sheet glass and l | aminated glass. | 07 |
| Q.4 | (a) (b) | Explain Body noise test and water leakage test. Explain briefly about different anti-corrosion methods. | | 07 07 |
| Q.5 | (a) (b) | Explain about body insulation and sealing. Explain shear panel method. | | 07 07 |
| Q.5 | (a) (b) | OR Explain with neat sketch or layout of articulated bus. Explain methods for paint and painting process for automobile | | 07 07 |
