

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – II • EXAMINATION – WINTER 2012

Subject code: 1721907**Date: 03-01-2013****Subject Name: Road Safety****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) Explain the importance of road safety. What are the remedial measures should take to improve the highway safety? **07**
- (b) What is Road Safety Audit? Explain the stages involved in it. **07**
- Q.2** (a) What are the factors causing road accidents? Describe each with its significance. **07**
- (b) What are the functions of National Road Safety and Traffic Management Board? **07**
- OR**
- (b) Explain collision diagram and condition diagram for the road accidents. **07**
- Q.3** (a) Discuss about magnitude and impact of road traffic injuries at global level. **07**
- (b) Briefly explain the deficiencies of Indian motor vehicle act. **07**
- OR**
- Q.3** (a) Explain the application of speed control devices to reduce the accidents. **07**
- (b) State the advantages of power-steering for commercial vehicles with respect to road safety. **07**
- Q.4** (a) Describe various enforcement measures for the road safety. **07**
- (b) Explain with sketches different types of road signs and their implication on road safety. **07**
- OR**
- Q.4** (a) Describe various educational measures for the road safety. **07**
- Q.4** (b) Explain the methods of ensuring safety of pedestrians. **07**
- Q.5** (a) What are the main sources and types of road traffic injury data? **07**
- (b) Discuss about different types of indicators to measure the road traffic injuries. **07**
- OR**
- Q.5** (a) Explain the importance of post injury management and hazard reduction techniques. **07**
- (b) Describe the methods for evaluating accident costs and insurances. **07**
