

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
M. Tech., Winter 2017 - 18 Examination

Semester: 2**Subject Code: 03211182****Subject Name: Road Safety Engineering****Date: 11/01/2018****Time: 2:00pm to 4:30pm****Total Marks: 60****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 A) Draw condition and collision diagrams. **(05)**

B) Describe methods for identifying hazardous road locations. **(05)**

C) Write short note on traffic signs used to prevent road accidents. **(05)**

Q.2 Answer the following questions. (Attempt any three) (Each five mark) **(15)**

A) Explain 4"E" concepts with reference to accidents analysis.

B) What is black spot? What is its importance in accident analysis?

C) Describe the variables involved in pedestrian crashes.

D) Write short note on traffic marking used to prevent road accidents.

Q.3 A) Which Highway Safety Measures are taken care of during road construction? **(07)**

B) How vehicle characteristics play the role in accident analysis? **(08)**

OR

B) Enlist the steps for road safety audit. **(08)**

Q.4 A) Enlist the data required for road accident survey. **(07)**

OR

A) Discuss road accident scenario in India. **(07)**

B) Write short note on Multi-causal dynamic systems approach to safety. **(08)**