Seat No: ______ Enrollment No: _____

PARUL UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

M.Tech. Summer 2018-19 Examination

Semester: 2 Date: 13/05/2019

Subject Code: 203211182 Time: 10:30 AM TO 1:00 PM

Subject Name: Road Safety Engineering 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.

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Q.1 A) Discuss the various causes of road accidents.	(05)
B) Explain in detail road safety management process.	(05)
C) Explain in detail the multi-causal dynamic system approach.	(05)
Q.2 Answer the following questions. (Attempt any three) (Each five mark)	(15)
A) Write a short note on condition diagram and collision diagram.	
B) What are the difference between an accident and a crash?	
C) Explain with flowchart Black Spot Identification & Investigations.	
D) Which are the advanced statistical methods of crash Data? Explain in detail any method.	one
Q.3 A) Explain in detail accident data analysis.	(07)
B) What are the guidelines for Enforcement of Rules and Regulation?	(08)
OR	
B) What are the guidelines for managing exposure to risk through transport policies?	(08)
Q.4 A) List out the Crash Countermeasures & explain any three in detail.	(07)
OR	

A) What do you mean by road safety audit? List out the essential elements of an RSA.

B) What are the checklist as per IRC:SP 88 - 2010 for different stages of road safety audit?

(07)

(08)