

Seat No: _____

Enrollment No: _____

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

Semester: 1

Subject Code: 03211101

Subject Name: Traffic Engineering

Date: 26-12-2017

Time: 02:00PM to 04:30PM

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) Enlist the road user characteristics and explain any one in detail. **(05)**
B) Draw the diagram showing relationship between flow and concentration. **(05)**
C) What do you understand by the term weaving? Explain briefly. **(05)**
- Q.2** Answer the following questions. (Attempt any three) (Each five mark) **(15)**
A) Explain the terms "Parking Accumulation" and "Parking Load".
B) Enlist the methods of volume count and explain any one in detail.
C) Write the purposes of finding spot speed.
D) Explain parking space inventory study.
- Q.3** A) The vehicles pass 1 km length of road in 1 min, 2 min and 3 min time respectively. Find time mean speed and space mean speed. **(07)**
B) Explain the concept of LOS as per HCM. **(08)**
- OR**
- B) Explain the factors affecting Capacity and Level of Service. **(08)**
- Q.4** A) Write the general principles of traffic signing. **(07)**
- OR**
- A) Enlist the different types of road marking. Explain any one in detail. **(07)**
B) Explain the different systems of traffic signals. **(08)**