

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BPLAN - SEMESTER- III • EXAMINATION – SUMMER 2016**

**Subject Code: 1035506**

**Date: 16/05/2016**

**Subject Name: Traffic and Transportation Planning-I**

**Time: 2 hrs (2:30 pm to 4:30pm)**

**Total Marks: 50**

**Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

**Q.1 (a) (1) What is the recommended Level of Service (LOS) for urban roads? 06**  
(a) A (b) B  
(c) C (d) D

(2) Which of the following surveys include home interviews?  
(a) Speed-delay survey (b) Origin-Destination survey  
(c) Road accident survey (d) None of the Above

(3) What type of signs are intended to convey definite positive instructions?  
(a) Mandatory signs (b) Prohibitory signs  
(c) Informatory signs (d) None of the Above

(4) Which of the following is known as a Traffic Management measure?  
(a) Tidal flow operation (b) Free Left turn  
(c) Road widening (d) None of the Above

(5) What is the term for recording a person killed in a road accident?  
(a) Minor injury (b) Grievous injury  
(c) Road Fatality (d) None of the Above

(6) Which of the following is known as the length of time spent in a parking space?  
(a) Parking volume (b) Parking duration  
(c) Parking load (d) None of the Above

**(b) Explain following terms: (Any Two) 04**  
(1) Capacity  
(2) Spot Speed  
(3) Forced flow type Level Of Service  
(4) Non Motorized Transport

**Q.2 (a) Explain the need for traffic volume counts? 05**

**(b) Explain rail based transport in detail? 05**

**OR**

- (b) What is the role and importance of Urban Transport? 05
- Q.3** (a) Explain any one type of Mass Rapid Transit system (MRTS)? 05
- (b) Explain planning and design guidelines for locating a bus stop facility? 05

OR

- (b) Explain Parking survey, its need and how this survey is conducted? 05
- Q.4** (a) Fill in the following blanks. 05
1. The shape of Prohibitory signs is \_\_\_\_\_.
  2. \_\_\_\_\_ speed is overall travel speed excluding delays.
  3. In road hierarchy, \_\_\_\_\_ type of streets provide access to private residences.
  4. As per IRC codes, the PCU for two wheeler is \_\_\_\_\_ and bus is \_\_\_\_\_.
  5. Desire Line diagram is most popular pictorial representation for \_\_\_\_\_ survey.

- (b) Explain the importance of traffic signs/ signages? 05

OR

- (b) What are traffic management measures? Explain any one in detail? 05
- Q.5** (a) Explain Arterial streets type of road hierarchy? 05
- (b) Explain advantages of traffic signals? 05

OR

- (b) Explain Mandatory type of road traffic signages? 05

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