



(Pages : 2)

E - 2369

Reg. No. : .....

Name : .....



**Eighth Semester B.Tech. Degree Examination, May 2018.**  
**(2013 Scheme)**  
**13.806.7 – TRAFFIC ENGINEERING (C)**

Time : 3 Hours

Max. Marks : 100

**PART – A**

Answer **all** questions.

1. What are the human factors governing road user behavior ?
2. What is meant by cumulative frequency distribution (CFD) ? What are the uses of CFD curve ?
3. What are the warrants for installing traffic signal at an intersection ?
4. Discuss the importance of traffic management. Mention important traffic management measures for congestion reduction.
5. Explain the concept of Passenger Car Unit (PCU). **(5×4=20 Marks)**

**PART – B**

Answer **any one full** question from **each** Module.

**Module – I**

6. a) Describe the various vehicular characteristics and their influence in traffic performance. **10**
- b) What are the objects of conducting O-D survey ? Briefly explain any one method of conducting O-D survey. **10**
7. a) What are the various aspects to be investigated during parking studies ? **10**
- b) What are the various applications of spot-speed studies ? **10**

P.T.O.

**Module – II**

8. a) Enumerate various types of at grade intersections and the design principles involved in each case. 10
- b) What is meant by a traffic interchange ? Illustrate different types of traffic interchanges. 10
9. a) With neat sketches show various types of traffic signs, classifying them in proper groups. 10
- b) Illustrate the different types of carriageway markings and their uses. 10

**Module – III**

10. Discuss the various causes of accidents and explain the measures to be taken to minimize accidents. 20
11. What is the necessity of street lighting ? Explain how street lighting is provided at carriageways, T and rotary intersections. 20

**Module – IV**

12. Describe the following terms related to traffic flow : 20
- i) Time mean speed
  - ii) Space mean speed
  - iii) Journey speed
  - iv) Headways
13. Explain highway capacity and level of service. Discuss the factors affecting capacity and level of service of highways. 20
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