Code :R7410107

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011 TRAFFIC ENGINEERING

(Civil Engineering)

Time: 3 hours Max Marks: 80

Answer any FIVE questions All questions carry equal marks

- 1. What are the three basic parameters of traffic? Define them and explain the relationship among the three parameters.
- 2. (a) Explain the method of manual volume counts and state its advantages.
 - (b) What are the objectives of speed studies? Explain. Also explain the method of conducting spot speed studies.
- 3. (a) Define capacity of a road. Discuss about the factors influencing the capacity of a road section.
 - (b) What do you understand by level of service? Explain the different levels of service used in traffic analysis with the help of a neat sketch.
- 4. Define the following and write about their importance in parking analysis.
 - (a) Parking accumulation.
 - (b) Parking load.
 - (c) Parking turn over
 - (d) Parking index
- 5. (a) What are the problems resulting from increased traffic in urban areas? Discuss.
 - (b) Briefly explain the method of signal design by Webster's method bringing out various steps involved.
- 6. What are the major pollutants resulting from road traffic and what are their adverse effects on environment? Explain. Also suggest remedial measures to reduce environmental pollution due to traffic.
- 7. (a) Give the classification of road signs and explain their importance.
 - (b) What are the different type of pavement markings? Explain with the help of suitable sketches.
- 8. What are the major causes of road accidents? Explain. Also suggest the possible engineering measures that can help in reducing the number of accidents.
