Code: R7410107

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

TRAFFIC ENGINEERING

(Civil Engineering)

Time: 3 hours Max. Marks: 80

Answer any FIVE questions

All questions carry equal marks

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1 Giving the definitions and units for volume, speed and density, explain the interrelationship among the three parameters. Give neat sketches.

2 (a) What are the various purposes for which traffic volume studies are to be conducted? Explain.
(b) What are the various statistical methods used in the analysis of speed survey data? Explain.

3 Define the terms 'capacity' and 'level of service'. With the help of a neat sketch, describe the traffic characteristics associated with different levels of service.

4 (a) Briefly, describe the method of parking usage survey by patrolling method.
(b) Explain about different kind of off-street parking facilities.

5 (a) Define 'channelization'. With the help of suitable sketches, explain what objectives can be achieved by channelization.
(b) Explain the signal design procedure by Webster method.

6 (a) Give the classification of traffic signs. Describe the design specifications for each type by giving two examples for each.
(b) Describe various lane markings and object markings used for traffic regulation.

7 (a) Explain the various factors that influence the traffic accident rate.
(b) Discuss about various engineering measures that can help in reduction of road accidents.

8 Write short notes on the following:
(a) Types of speeds used in traffic analysis.
(b) Peak hour factor.
(c) Pollution due to road traffic.
(d) Road safety audit.

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