

Roll No

CE-8003 (2) (CBGS)**B.E. VIII Semester**

Examination, November 2019

Choice Based Grading System (CBGS)**Traffic Engineering***Time : Three Hours**Maximum Marks : 70***Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

iii) Assume missing data suitably.

1. a) Explain PIEV theory of reaction time of driver. 7
b) Explain different Road User's characteristics affecting their performance. 7
2. a) What is meant by O&D? How moving car survey is carried out? Explain analysis of data obtained. 7
b) What are the methods of conducting speed and delay studies and causes of delay? 7
3. a) Write a note on 7
i) Possible capacities and
ii) Level of Service
b) What are the methods of parking studies. 7
4. a) The 15 min traffic counts on road A and road B at intersection are 180 and 140 vehicles respectively. The approach speeds are 70 and 55 kmph respectively. Design the traffic signals using principles of Trial Cycle Method. 7

- b) What are the advantages and limitations of one way street? 7
5. a) Discuss the different methods of coordination of signals at different intersections. 7
b) Write a note on 7
i) Fixed time signal
ii) Speed control signals
6. a) What are the different types of light sources used for street lighting. 7
b) Discuss the effect of height and projection of Lamp on Length of shadow through neat sketches. Explain other factors affecting lighting of road. 7
7. a) Explain condition diagram and collision diagram. 7
b) Explain importance of Accident Survey in India and Abroad. 7
8. Discuss merits, demerits and various features of mass Transportation in detail. 14
