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Roll No

CE-8003(2)-CBGS

B.E. VIII Semester

Examination, December 2020

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.

1. a) What is the need of traffic volume study? Explain methods of traffic volume study.
b) Explain the presentation of O-D data with sketch.
2. Explain PIEV theory with neat sketch.
3. a) Write a note on
 - i) Possible capacities
 - ii) Level of Serviceb) What are the methods of parking studies.
4. Draw at least 5 signs of each (not to scale)
 - i) Regulatory signs
 - ii) Warning signs
 - iii) Information signs
5. a) What is meant by O and D? How moving car survey is carried out? Explain analysis of data obtained.
b) What are the methods of conducting speed and delay studies and causes of delay?

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6. Discuss merits, demerits and various features of mass Transportation in detail.
7. 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.
b) What are the advantages and limitations of one way street?
8. a) Establish a relationship between speed, flow and density graphically and explain briefly.
b) Draw a neat sketch of collision diagram for the Head on collision occurred at a four leg intersection. Also indicate the possible conflict points at the intersection. Assume all legs are four lane divided carriageway.

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