

BE - VIIth Sem. Civil Engg. Examination, 2018

Subject: Traffic Engineering

Paper: CE-704

Time : 3 Hours

Maximum Marks -60

Note: Question no. I is compulsory. Question no. II to VI having 3 parts (a) (b) (c) out of which two parts to be attempted .

Q.I. Answer the following in short –

2x5=10

- (a) Practical Capacity of road
- (b) Level of Service
- (c) How Traffic volume survey is carried out
- (d) What do you understand by access control highway
- (e) Define traffic density

Q.II. (a) Explain PIEV theory of reaction time of driver.

5

(b) Discuss different characteristics of vehicle to rest condition .

5

(c) Explain different Road User's characteristics affecting their performance .

5

Q.III. (a) How origin and destination survey is done by different method ?

5

(b) How moving car survey is carried out ? Explain analyse of data obtained .

5

(c) Explain various parking method .

5

Q.IV. (a) Explain merits and demerits of one way street ?

5

(b) Discuss different methods of coordination of signals at different intersections.

5

(c) What do you understand by traffic regulation ? Explain the various means of traffic control .

5

Q.V. (a) How light is distributed by various methods ?

5

(b) Explain the design of street lighting system .

5

(c) Explain 'Utilization Factor' and 'Maintenance factor'

5

Q.VI. (a) Explain condition diagram and collision diagram.

5

(b) Explain importance of Accident Survey in India and Abroad .

5

(c) Discuss merits, demerits and various features of mass Transportation in detail.

5