

M.Tech. 1st Semester (Civil Engg.)

Examination, December-2018

TRANSPORTATION ENGG.

Paper- CE-641

Transportation System Planning

Time allowed : 3 hours]

[Maximum marks : 100

Note: Attempt any five questions. All questions carry equal marks.

1. What are the vital recommendations of Jaykar Committee report? Explain how this is helped in road development in India. 20
2. Explain the various methods of traffic study, its analysis and significance. 20
3. Why are the overtaking zones provided? What are the basis for deciding its length? With the help of sketch, the signs to be installed and their position. 20
4. Public safety is most vital requirement in highway planning. What are the various methods commonly recommended while planning roads? 20
5. Explain the various methods of study uninterrupted traffic with their suitability. 20
6. Explain why it is important to know traffic characteristics while planning a new highway? Discuss in detail. 20

7. With the help of neat sketch, calculate the width of pavement, roadway and land for 20
 - (i) M.D.R. in Embankment.
 - (ii) O.D.R. in cutting
 - (iii) Urban roads
 - (iv) Divided Highway and urban road
8. Write short notes on 4×5=20
 - (i) Road Development plan vision 2021.
 - (ii) Road Development plan vision 2025.
 - (iii) Fact finding survey
 - (iv) Star and Grid pattern.