

Roll No. : .....

Total No. of Questions : 8 ] [ Total No. of Pages : 2

**23230**

**M.Tech. 1st Semester (Civil Engg.)  
Transportation Engg.  
Examination, March-2021**

**TRANSPORTATION SYSTEMS PLANNING**

Paper-CE-641

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :-** Attempt five questions in all. All questions carry equal marks. Assume missing data, if any, suitably.

1. What are the objectives and scope of Transport Planning System ? Explain briefly. 20
2. Explain briefly :
  - (a) Public Transport Surveys
  - (b) Multiple Linear Regression Analysis 10,10

3. Describe briefly the factors that affecting the trip generation and attraction rates. 20
4. Explain briefly the trips distribution by Gravity Model. 20
5. What do you understand by general principles of Traffic Assignment ? Explain capacity restraint assignment. 20
6. Describe briefly the model split in the Transport Planning Process. 20
7. (a) What are the different inventories required for doing transport planning for an area ?  
(b) Describe briefly the home interview survey in transport planning. 10,10
8. What do you mean by term Zoning ? How a study area is divided into zones ? 20