

Roll No. _____

23230

**M. Tech. 1st Sem. (Civil Engg.)
Transportation Engg.**

Examination – February, 2022

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 stages in the transport planning process ?
Explain briefly 20
2. (a) Discuss salient features of study-area zoning. 10
(b) Explain briefly the Home interview survey in transport planning. 10
3. (a) Define Home-based trips and non-home based trips. 10

- (b) Briefly describes the Multiple Linear Regression analysis. 10
4. What is trip distribution ? Explain the method of trip distribution. 20
5. What do you understand by traffic assignment ? Explain diversion curves 20
6. (a) What are the advantages and disadvantages of pre-distribution modal split in transport planning ? 10
- (b) Explain the general consideration for modal split. 10
7. Explain briefly : 20
- (a) Road-side interview surveys
- (b) Public transport surveys
8. (a) What are the different objectives of transport planning ? 10
- (b) What are the different inventories required for doing transport planning for an area 10
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