

Roll No.

23234

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

Examination – February, 2022

TRANSPORTATION AND ENVIRONMENT

Paper : CE-647

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.

1. Explain the various environmental factors or impact of highway projects on environment including air, water, flora & fauna and visual intrusion. 20

2. (a) What is transport related vision 2020 ? 10

- (b) Describe the socio economic effect due to highway development project on a small city. 10

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3. What is the importance of traffic calming devices ?
List and explain all in detail 20
4. Explain the UK/EC or World Bank guidelines for any EIA project conducted on highways. Discuss the function and importance of EIA in India. 20
5. (a) How measurement and analysis of vehicles emission is done ? 10
(b) List and explain the EIA practices conducted on Highways. 10
6. What are the road transport related air pollution and sources of air pollution ? 20
7. Explain the traffic related problems and pollution problems in India. 20
8. Discuss the vehicular emission parameters reasonable for environment pollution. 20
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