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

Engg. (Elective-III) Examination,

November-2023

TRANSPORTATION AND ENVIRONMENT

Paper-CE-647

Time allowed : 3 hours] [Maximum marks : 100

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

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

1. Enumerate the driver's and vehicle characteristics you would study for a high speed road. 20
2. What traffic calming measures could be adopted to regulate traffic ? Explain with neat sketch. 20
3. Discuss main parameters that have been traditionally used for the assessment of the air quality impact of traffic. 20
4. What are energy related aspects of different transport technologies ? Explain in detail. 20

5. Discuss the factors affecting the Level of Transportation Noise. 20
6. Explain in detail various techniques which could be used for traffic noise mitigation. 20
7. Describe various steps involved in environmental impact assessment of a highway with the help of flowchart. 20
8. Why environmental impact assessment is important ?
Add note on Environmental Impact Assessment practices in India. 20