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School of Engineering
M.TECH Transportation Engineering
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - G1PD201T - Advanced Traffic Engineering and Safety

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) What factors contribute to analyze the accident data K1 (2)
- 2) Describe the necessity of origin and destination study K2 (4)
- 3) How is LOS determined for different types of transportation systems? K2 (6)
- 4) Explain the concept of traffic incident management and its importance in reducing congestion. K3 (9)
- 5) Discuss the challenges associated with integrating micro-mobility options into urban transportation systems. K3 (9)
- 6) How are traffic management strategies optimized for large-scale events such as concerts or sports games? K5 (10)
- 7) Design a research study to analyze the effectiveness of road safety education programs. K4 (12)
- 8) Evaluate the economic impact of investing in Intelligent Transportation Systems. K5 (15)
- 9) Examine Advantages and limitations of growth factor model K5 (15)
- 10) What measures can be taken to improve visibility at intersections and reduce accidents? K6 (18)