School of Engineering

M.TECH Transportation Engineering
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem I - G1PD104T - Intelligent Transportation Systems

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) How do market economic perspectives influence the development of ITS? — K2 (2)

2) List types of data to be collected in real time — K1 (3)

3) Provide an overview of the benefits of ITS in improving traffic management? — K2 (4)

4) Provide examples of historical milestones in the development of ITS. — K2 (6)

5) Assess the ethical implications of data collection in ITS, especially video data collection. — K3 (6)

6) Evaluate the challenges of integrating multiple ITS technologies into a single system. — K3 (9)

7) Contrast role of Advanced Public Transportation Systems (APTS) in reducing traffic congestion. — K4 (8)

8) Evaluate the environmental impact of an ITS deployment in terms of reduced carbon emissions and improved air quality. — K4 (12)

OR

Analyze the relationship between ITS and overall transportation system planning in a case study. — K4 (12)