

ADMISSION NUMBER											

School of Engineering
M.TECH Transportation Engineering
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

Sem II - G1PD202T - Urban Mass Transportation Planning Operations and Management

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 does bus rapid transit (BRT) differ from traditional bus services, and what are its benefits? K2 (2)
- 2) What are the different uses of a road space? K1 (3)
- 3) Outline the significance of integrated rail transport systems in urban mass transportation planning. K2 (4)
- 4) Concerning urban transportation, discuss the values, goals, and objectives of planning of transportation system. K2 (6)
- 5) Explain the factors affecting transportation needs. K3 (6)
- 6) Describe the problem of road congestion and its mitigation strategies. K3 (9)
- 7) Compare and contrast the strengths and weaknesses of the gravity model and the radiation model in trip distribution forecasting. K4 (8)
- 8) Why do we need to plan urban transportation? What are the objectives of urban transportation planning? K4 (12)

OR

What are the different components of urban transportation systems categories. Explain with a diagram K4 (12)