

School of Engineering

Department of Civil Engineering

Mid Term Examination

Exam Date: 26 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MTPE7001 - Smart and Sustainable Transportation

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Explain the relationship between transportation and urban sprawl. K2 (2)
- 2) Explain the concept of Transit-Oriented Development. K1 (3)
- 3) Extend your views on all the environmental impact of urban sprwal K2 (4)
- 4) Compare the environmental impacts of passenger cars, trucks, and rail transport. K2 (6)
- 5) Develop a strategy to increase ridership in a bus transit system. K3 (6)
- 6) Analyze the impact of transit system configuration on its performance. K3 (9)
- 7) Give your opinion on challenges in implementing sustainable transportation modes in suburban areas. K4 (8)
- 8) Assess the effectiveness of recent trends in transit in reducing traffic congestion. K4 (12)

OR

Evaluate the sustainability of a public transit system of your city. K4 (12)