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**School of Engineering**  
**M.TECH Transportation Engineering**  
**Semester End Examination - Nov 2023**

**Duration : 180 Minutes**  
**Max Marks : 100**

**Sem III - MTPE6013 - Transport Economics and Finance**

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) Label the factors that affect unit cost of the vehicle . K1 (2)
- 2) Explain the main factors that contribute to calculating the economic value of time savings for travelers K2 (4)
- 3) Summarize how can saving time while traveling benefit people K2 (6)
- 4) Calculate the value of travel time savings for different transportation modes and assess their implications for mode choice. K3 (9)
- 5) Design a road pricing scheme for a city to manage congestion and generate revenue. K3 (9)
- 6) Assess the challenges in estimating accident costs accurately, particularly in the context of developing countries. K5 (10)
- 7) Analyze the impact of fluctuating fuel prices on the overall variability of vehicle operating costs. K4 (12)
- 8) Evaluate the implications of valuing travel time savings differently for different user classes. K5 (15)
- 9) Assess the limitations of using monetary evaluations to measure the value of travel time savings. K5 (15)
- 10) Develop a strategy to account for externalities in the economic evaluation of transportation projects. K6 (18)