

ADM	ISSI	N NC	UMB	ER		

School of Engineering M.TECH Transportation Engineering

Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem I - G1PD101T - Material Characterization and Pavement Engineering

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)	Explain the difference between coarse-grained and fine-grained soils.						
2)	What are the primary factors affecting soil properties?						
3)	Explain the mechanical response of different soil types.						
4)	Explain the relationship between the index properties of soils and their behavior.						
5)	Develop a laboratory testing plan to evaluate soil properties.						
6)	Choose the appropriate injection method for a grouting task						
7)	Compare and contrast the properties of different soil types	K4 (8)					
8)	Compare and contrast mechanical, cementing, and chemical stabilization methods	K4 (12)					
	OR						
	Analyze the factors influencing the selection of grouting equipment.						