

# School of Engineering

Department of Civil Engineering  
Mid Term Examination

Exam Date: 29 Sep 2023

Time : 90 Minutes

Marks : 50

## Sem III - MTPE6018 - Rural Road Technology

*Your answer should be specific to the question asked*

*Draw neat labeled diagrams wherever necessary*

- 1) Explain the purpose of a pavement design. K2 (2)
- 2) What are the primary functions of road pavements? K1 (3)
- 3) How does the moisture content affect the CBR value of a soil? K2 (4)
- 4) Explain the role that geographical information systems (GIS) play in rural road planning? K2 (6)
- 5) Predict how can poor subgrade conditions affect pavement performance? K3 (6)
- 6) Identify and show the steps involved in conducting a detailed topographical survey for rural road planning. K3 (9)
- 7) Examine how can recycled materials be used effectively in base course construction? K4 (8)
- 8) Analyse the need of "multi-modal integration" in rural road planning K4 (12)

**OR**

Analyze the impact of rural road development on reducing rural-urban migration. K4 (12)