

ADMISSION NUMBER							

School of Engineering

M.Tech Structural Engineering
Mid Term Examination - Nov 2023

Duration: 90 Minutes Max Marks: 50

Sem I - G1PC102T - Matrix Methods of Structural Analysis

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) K2 (2) Outline the types of matrix methods of analysis of indeterminate structures. 2) Define indeterminacy of a structure. K1 (3) K2 (4) 3) Explain stiffness and flaxibility in structural analysis. K2 (6) 4) Illustrate the stress strain relationship for plane stress problems. K3 (6) 5) Identify Determinants of matrices. K3 (9) 6) Construct steps for analysis of continous beam using flexibility method. 7) K4 (8) Classify types of joins and supports in structures. 8) Analyse the continuous beam shown in figure using force method. K4 (12) 100 KN 60 KN/m



