## CSE Department, B.I.T. Mesra - Deoghar

QUIZ - II (SP-2025)

CS241, Design and Analysis of Algorithms

Max. Marks: 10

**Duration: 45 Minutes** 

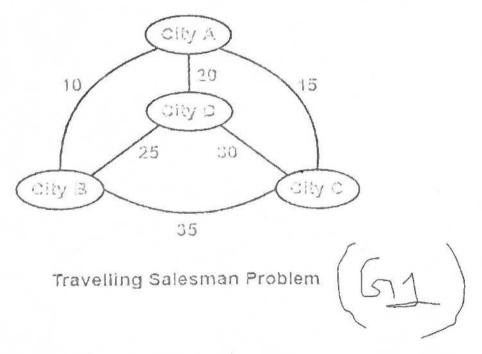
Semester: SP-2025

Branch / Class: B.Tech. IV CSE

## Note:

- ✓ Attempt all questions.
- ✓ All questions carry equal marks.
- ✓ Describe your answer appropriately.
- ✓ You may take your suitable assumptions (if any)

Question 1: Solve the following Travelling Salesman Problem (TSP) by Constructing State-Space-Tree of branch and bound method and construct Least Cost Matrix: (5 Marks)



Question 2: Construct Minimum Cost Spanning Tree (MCST) for above graph G1 of TSP using Krushkal's method and describe the steps of your approach / algorithm. [5 Marks]

Date of Exam: 04, 04, 2025

Questions paper prepared by: Dr. K. N. Mishra, CSE, BITD