JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION-2022

M.Tech-I Semester (Civil)

COURSE CODE (CREDITS): 11M1WCE111 (3)

MAX. MARKS: 25

[8]

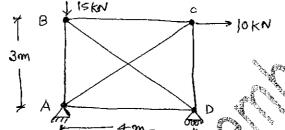
COURSE NAME: Advanced Structural Analysis

COURSE INSTRUCTORS: Mr. Chandra Pal Gautam

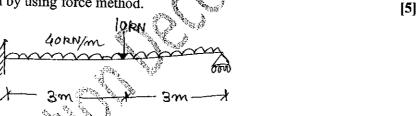
MAX. TIME: 1 Hour 30 Min

Note: All questions are compulsory. Marks are indicated against each question in square brackets,

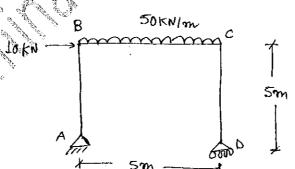
Q1. Solve the given truss by using force method and find the final forces in all members



Q.2. Solve the given beam by using force method.



Q.3. Find the displacement at joint C along x axis using unit load method. Assume EI constant for all members.



Q.4. Solve the given beam by using Slope deflection equation and draw the bending moment diagram along with deflection pattern of the beam.

[6]

