JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

M.Tech-I Semester (CE)

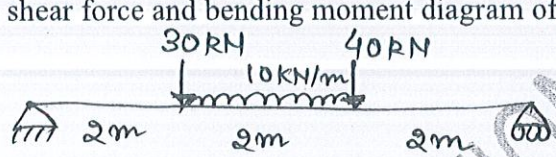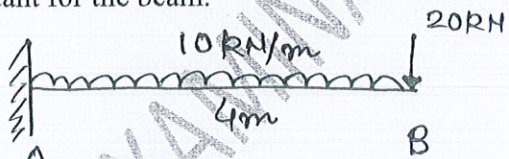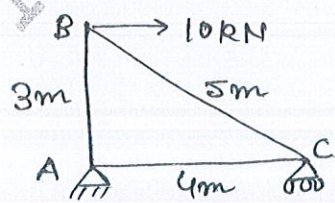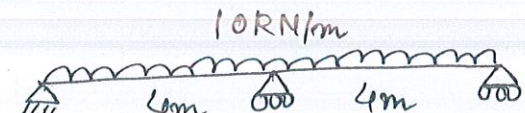COURSE CODE (CREDITS): 25M11CE113 (3)　　　　MAX. MARKS: 15

COURSE NAME: Advanced Structural Analysis

COURSE INSTRUCTORS: Mr. Chandra Pal Gautam　　　MAX. TIME: 1 Hour

Note: (a) *All questions are compulsory.*

(b) *The candidate is allowed to make Suitable numeric assumptions wherever required for solving problems*

Q.No	Question	CO	Marks
Q1	Draw the shear force and bending moment diagram of the given beam.	CO-1	3
Q2	Find the deflection of the given beam by using unit load method at B. Assume EI constant for the beam.	CO-1	4
Q3.	Find the deflection in the truss at the joint B along x direction. Assume AE is constant for all truss members.	CO-2	4
Q4.	Solve the given beam by using Force Method. Assume EI is constant for the complete beam.	CO-2	4