JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- 2024

B.Tech-V Semester (CE)

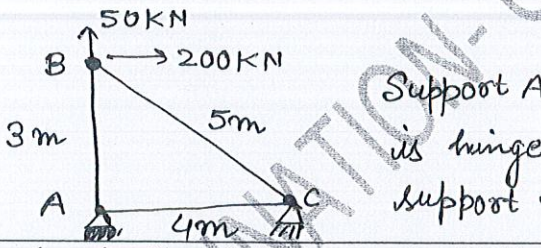COURSE CODE (CREDITS): 18B11CE513   MAX. MARKS: 25
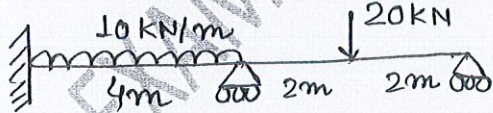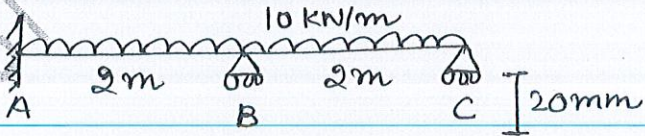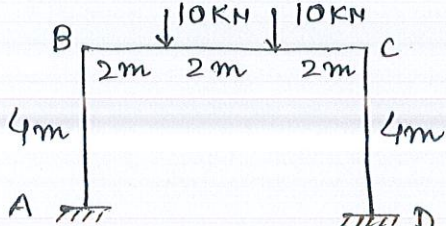
COURSE NAME: Structure Analysis

COURSE INSTRUCTORS: Mr. Chandra Pal Gautam   MAX. TIME: 1 Hour 30 Minutes

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	Anayse the given truss by using force method. AE for all the members are same.	CO-2	7
Q2	Solve the given beam by using Slope deflection equation (SDE) and the reinforcement pattern in the beam. EI for all the spans are same.	CO-3	6
Q.3	Analyse the given beam by using SDE and draw the bending pattern of the beam. Support C settles by 20mm. E=200GPa, I = 200x10^{6}mm^4	CO-3	6
Q.4.	Evaluate the moments at all joints and supports of the given frame by using SDE. EI for all the members are same.	CO-4	6