JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2026

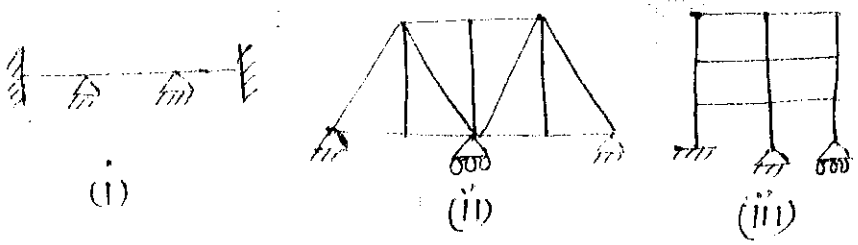
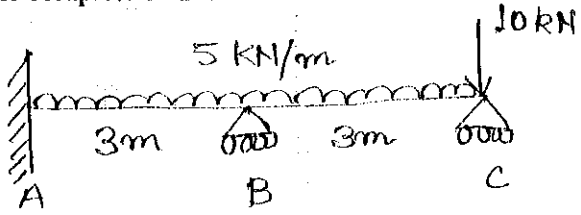
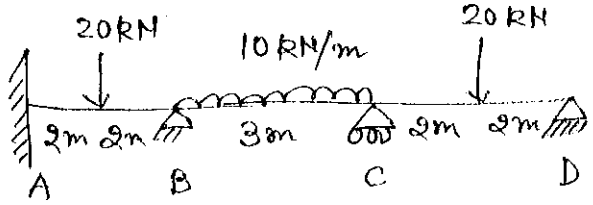
B.Tech-V Semester (CE)

COURSE CODE (CREDITS): 25B11CE511 MAX. MARKS: 15

COURSE NAME: STRUCTURAL ANALYSIS

COURSE INSTRUCTOR: 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
(c) Use of calculator is allowed

Q.No	Question	CO	Marks
Q1	Discuss the advantages and disadvantages of Indeterminate structures over determinate structures.	CO-1	2
Q2	For the given structures, find the Static and Kinematic Indeterminacy. 	CO-1	3
Q3	Solve the given beam by using Force Method. Also draw the bending moment diagram and pattern of reinforcement for the same. EI is constant for the complete beam. 	CO-2	5
Q4	Solve the given beam by using Three Moment Equation. Also draw the bending moment diagram and pattern of reinforcement for the same. EI is constant for the complete beam. 	CO-2	5

(8)