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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- 2025

B.Tech-I Semester (CE)

COURSE CODE (CREDITS): 18B11CE513 (3)

MAX. MARKS: 15

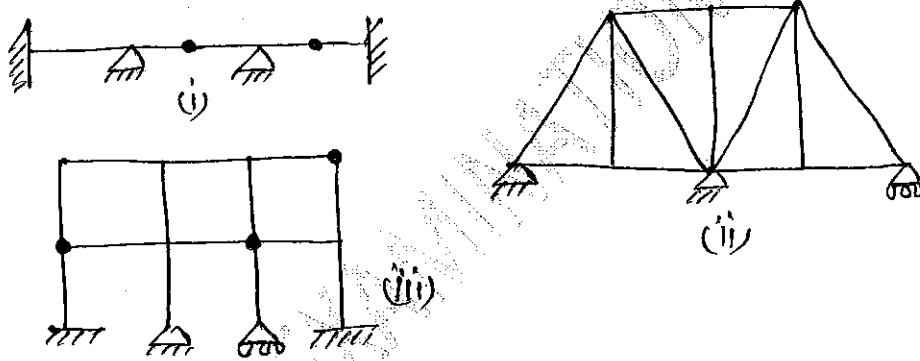
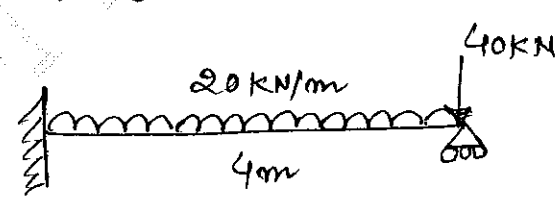
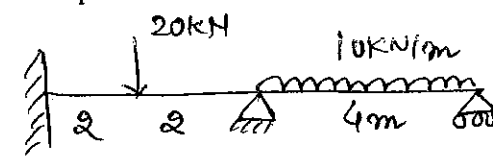
COURSE NAME: Structural Analysis

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	<p>(i) Most of the real world structures which we see today are indeterminate structures. State various reasons behind it.</p> <p>(ii) Find the static and kinematic determinacy of the following structures. All dark points are IH (internal hinge).</p> 	CO-1	1 + 6 = 7
Q2	<p>Solve the given beam by using Force Method. Assume EI is constant for the complete beam.</p> 	CO-1	4
Q3	<p>Solve the given beam by using Three Moment Equations. Assume EI is constant for the complete beam.</p> 	CO-2	4