JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT Make-up Examination-Nov-2025

COURSE CODE (CREDITS): 25M11CE113

MAX. MARKS: 25

COURSE NAME: Advanced Structural Analysis

COURSE INSTRUCTORS: Mr. Chandra Pal Gautam

MAX. TIME: 1 Hour 30 Minutes

Note: 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	Solve the given beam by using Force Method. Assume EI is	CO-1	6
	constant for the complete beam.		ļ,
	10 kH/m 2m 000 2m 000 A B C		
Q2	Draw the shear force and bending moment diagram of the given	CO-1	5
	beam. 16kH 20kH/m		-
	600 2m 2m 600 4m 1007		
Q3.	Solve the given beam by using Slope deflection Equation and draw the bending moment diagram along with reinforcement pattern in	CO-2	7
	the beam. Sky 5kN 5kN/m 1 L1 m 3m A B C		•
Q4.	Solve the given frame by using Slope Deflection Equation. 10RM 10RM 2m 2m 2m 4m 4m A 777 D	CO-3	7