Full Marks: 100

BACHELOR OF CIVIL ENGINEERING EXAMINATION, 2023

(2nd Year, 2nd Semester)

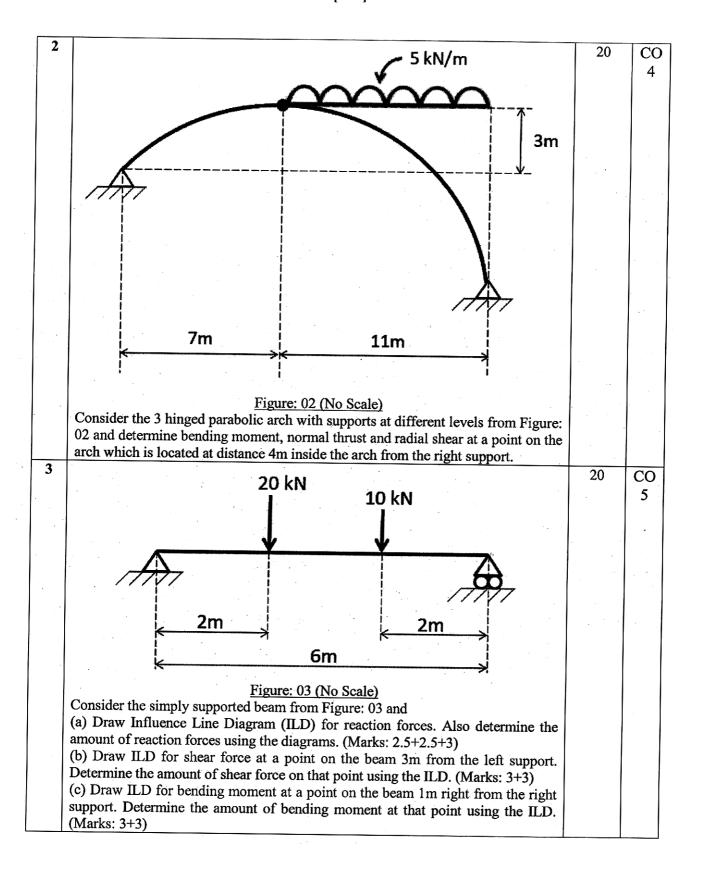
STRUCTURAL MECHANICS II

Time: Three hours (Use separate Answer scripts for each Part)

PART I (60 Marks)

Instructions:			
All notations represent their standard relevant meaning.			
f you feel that any data or condition is/are missing in any question, please assume relevant nputs and mention the same.			
f			

SI No	Question	Marks	СО
1	12 kN 8 kN	20	CO 3
	A F D 3m		
	3m 4m 3m Figure: 01 (No Scale)		
	Consider the truss from Figure: 01 where the joints of the truss A,B,C,D,E & F are shown and determine all the member forces and mention the same with the figure with proper notations showing the nature of member forces. All members are having Modulus of Elasticity: 200000 N/mm ² . The cross sectional area of all members are 1800 mm ²		



Ref. No.: Ex/CE/PC/B/T/224/2023

B.E. CIVIL ENGINEERING SECOND YEAR SECOND SEMESTER EXAM 2023

Subject: STRUCTURAL MECHANICS II

Full Marks:100

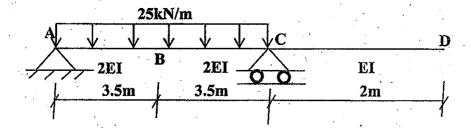
Time: 3hours

(Use Separate Answer scripts for each Part)

Part-II (Marks 40)

1. Find slope and deflection at point B and D. Use conjugate beam method.

(CO·2) (15)



2. Determine the bending moment at different locations of the continuous beam shown below. Also draw the bending moment and shear force diagrams. Use Three moments theorem. (CO 1) (25)

