



InSem Examination-II Summer2024		
Exam Seat No.:		
Academic Year:2023-2024	Semester:IV	
Name of Programme:S.Y.B.Tech(Civil Engineering)	Pattern:2022	
Name of Course:Structural Analysis	Course Code:CIV222011	
Max. Marks:30	Duration:1 hour	

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains 2 pages.
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last columns indicates the Course Outcome

Question No. 1 Attempt following Question

- a) Define degree of static and kinematic indeterminacy with example. (3) CO1

OR

- b) Identify degree of static indeterminacy of the given structure shown in figure 1 b (3) CO1

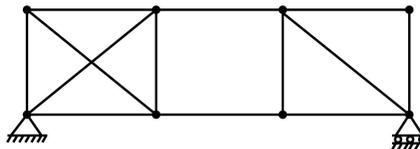


Figure 1 b

- c) Determine deflection at 'C' for the given beam shown in figure 1 c using Macaulay's method. (6) CO1

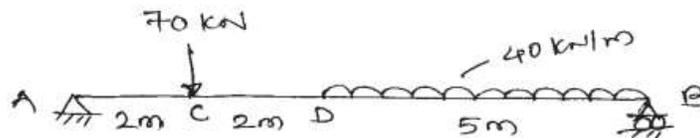


Figure 1 c

OR

- d) Determine maximum deflection, for a simply supported beam of span 'L' m carrying udl on entire span of intensity w kN/m, using Macaulay's method (6) CO1

