

DEPARTMENT OF CIVIL ENGINEERING

STRUCTURAL ANALYSIS-II (CEL331)

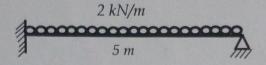
MINOR EXAMINATION-I

Date: 29/08/14

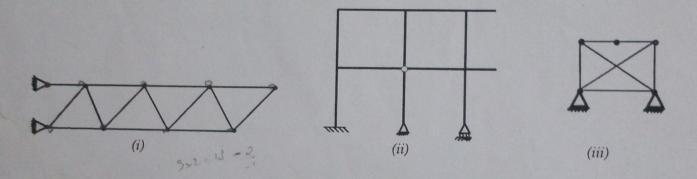
Time Allowed: 01 Hour

Max. Marks = 30

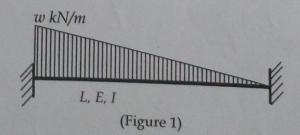
Q#1: Using Slope-Deflection method, compute the fixed end moment of the proposed cantilever of span 5m subjected to a uniformly distributed load of 2 kN/m. Assume that flexural rigidity (EI) for the beam is constant. (04 Marks)



Q#2: Determine the stability, degree of static indeterminacy, and degree of kinematic indeterminacy of the following structures. Assume frame members are inextensible. (06 Marks)



Q#3: Using the Method of Consistent Deformations, determine the end moments and reactions of a fixedends beam subjected to a triangular loading of "w" kN/m, as shown in Figure 1. Draw SFD and BMD for this structure. (20 Marks)



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