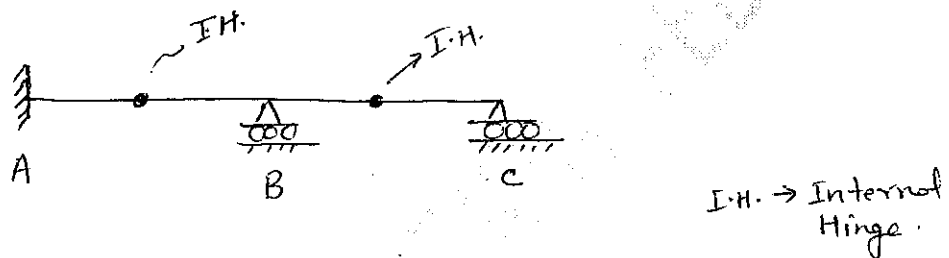


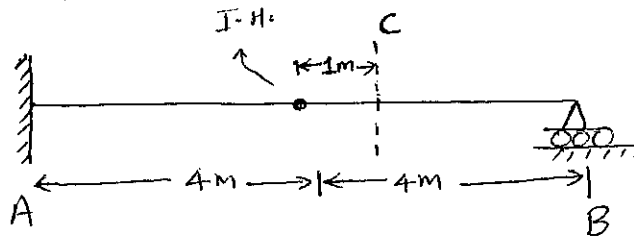
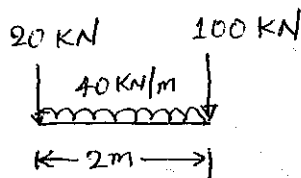
*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

Q1. Define Influence Line Diagram and its uses in structure analysis. CO-1, CO-2 [2]

Q2. Draw the influence line diagram for support reaction at B and bending moment at support A and B for the given beam by using Muller Breslau Principle. CO-1, CO-2 [3]



Q3. For the given combination of loading moving from left to right, find the maximum value of shear force and bending moment at section C. CO-1, CO-2 [5]



Q4. A triangular load is moving from left to right on the given beam. Find the maximum value of  $R_B$ ,  $R_D$  and bending moment at section C. CO-1, CO-2 [5]

