Chandra Pal

COURSE CODE: 10B11CE615

COURSE NAME: Advanced Structural Analysis

MAX. MARKS: 15

COURSE CREDITS: 04

MAX. TIME: 1Hour

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q.1. Define influence line diagram and mention its application. **(1)**

Q.2. Draw the influence line diagram for the following beams using Muller's Breslau Principle for the support reactions, bending moment and shear force for the mentioned sections. **(5)**
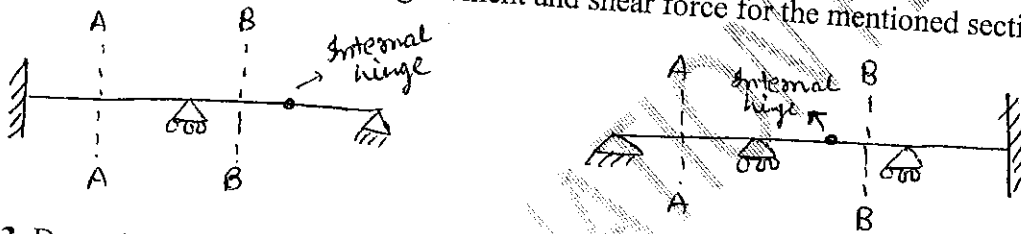
Q.3. Draw the ILD for member AE and BE. **(4)**

2 panels at 4 m = 8 m
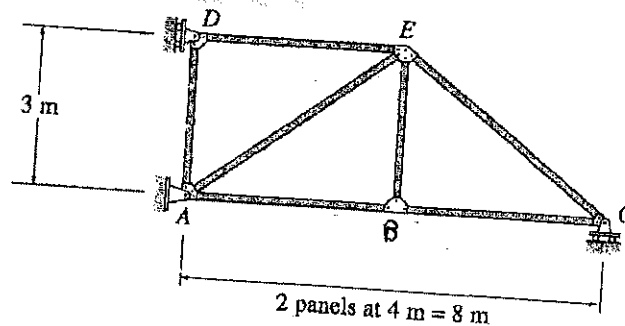
Q.4. Finds the max value of shear force and bending moment for the given section 'C' for the mentioned moving loads. Also find the absolute max. shear force and absolute max. bending moment for the beam. **(5)**
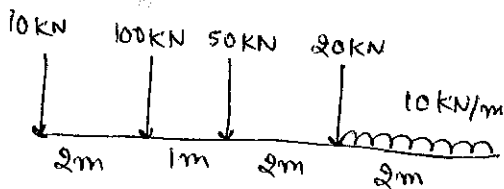
Combination of load which moves from Left to right