

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- April-2019

B.Tech. IVth Semester

COURSE CODE: 10B11CE413

MAX. MARKS: 25

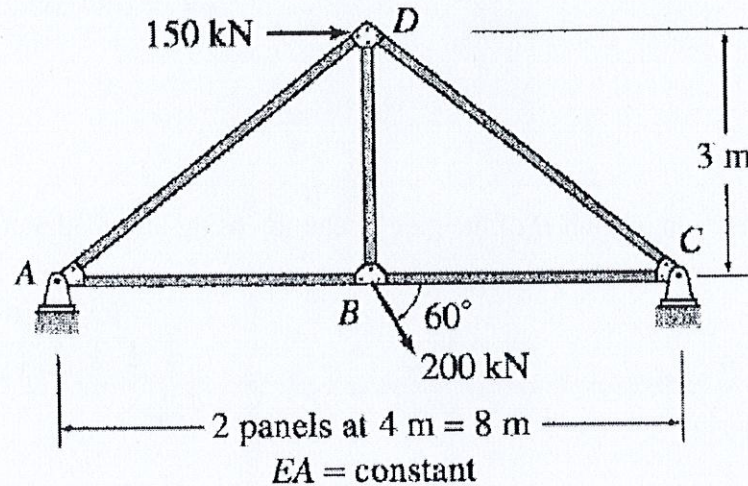
COURSE NAME: Structural Analysis

COURSE CREDITS: 04

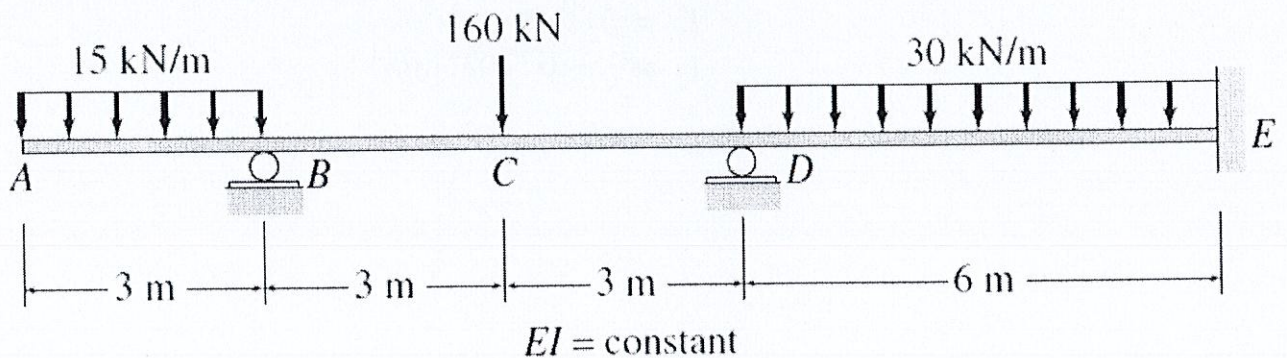
MAX. TIME: 1.5 Hours

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

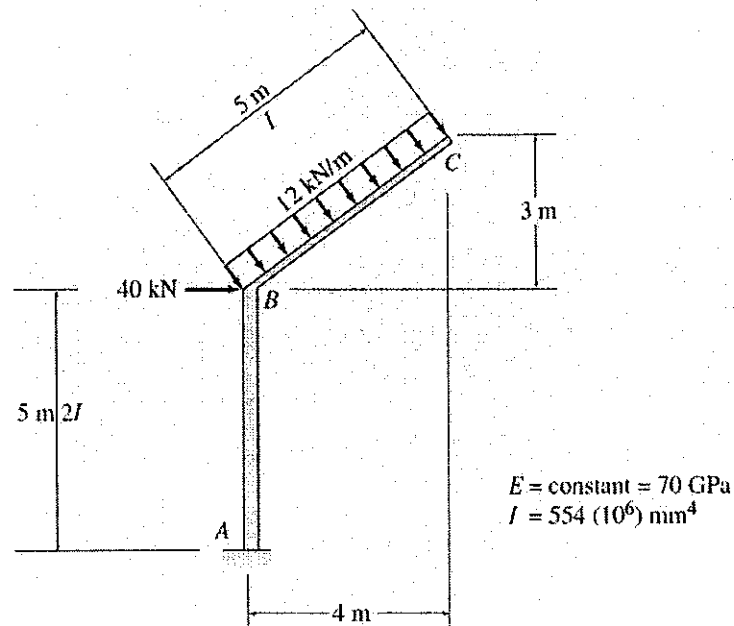
Q.1 Find all support reactions and forces in the member for the given truss by using force method. (8)



Q.2. Solve the given beam by using three moment equation. Draw the bending moment diagram and deflection pattern of the beam. (6)



Q.3 Find the deflection of joint 'C' along y axis of the frame by using unit load method. Assuming EI is constant for the frame. (6)



Q.4. Find the deflection of joint D of the given beam by using unit load method. (5)

