

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION-May-2018

B.Tech. – IVthSemester

COURSE CODE:10B11CE413

MAX. MARKS:35

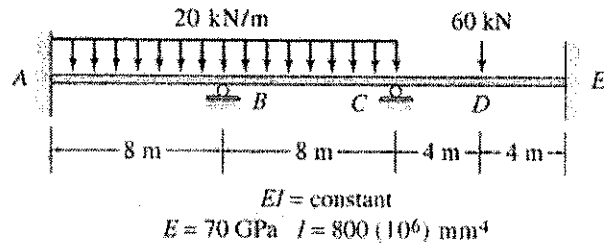
COURSE NAME: Structure Analysis

COURSE CREDITS: 4

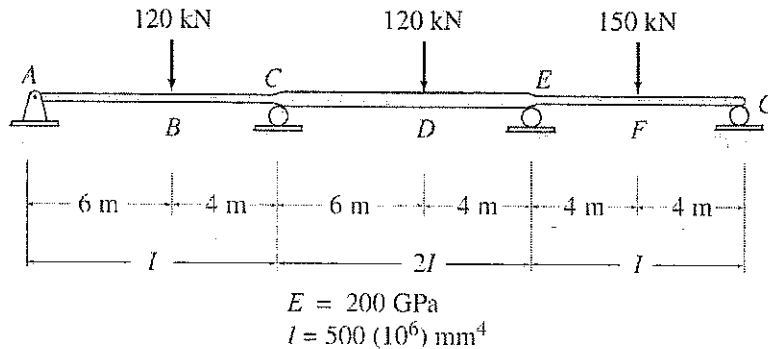
MAX. TIME: Two Hours

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

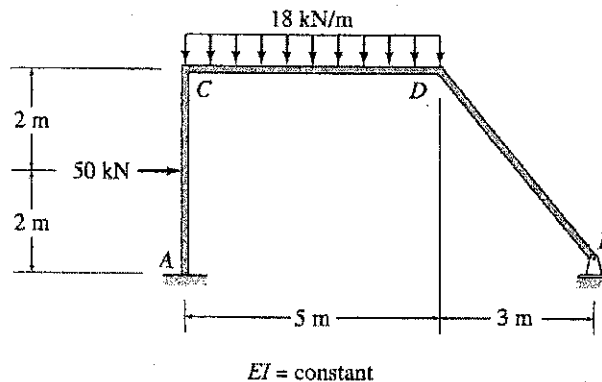
Q.1 Solve the given beam by using Slope Deflection Equation and draw the bending moment diagram and deflection pattern of the beam. (8)



Q.2. Solve the given beam by using Moment distribution Method & draw the bending moment diagram and deflection pattern of the beam. (9)



Q.3. Solve the given frame by using Slope Deflection Equation method. $E = 200 \text{ GPa}$, $I = 500 \times (10^6) \text{ mm}^4$ (9)



Q.4. Solve the given frame by using Moment distribution method.

(9)

