

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT  
 TEST -1 EXAMINATION- SEP- 2017

M.Tech.I<sup>st</sup> Semester

COURSE CODE: 11M1WCE111

MAX. MARKS: 15

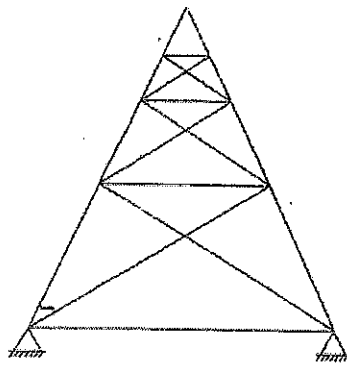
COURSE NAME: ADVANCED STRUCTURAL ANALYSIS

COURSE CREDITS: 4

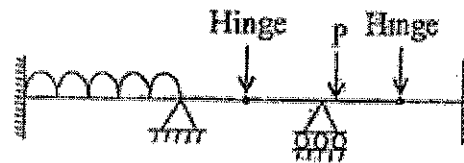
MAX. TIME: One Hr

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

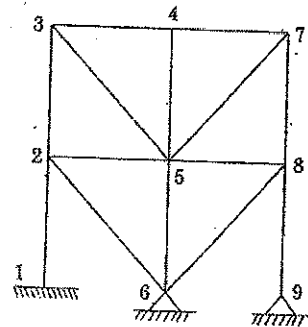
**Q.1.** Find the Static and Kinematic indeterminacy of the following structures. (6)



(i) Truss

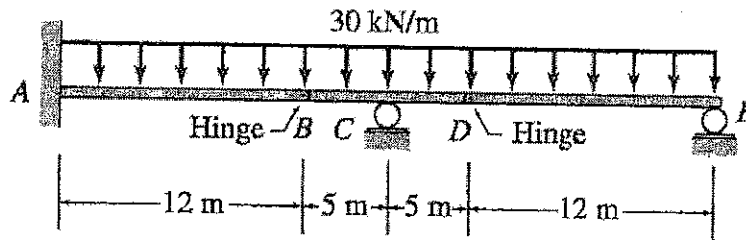


(ii) Beam

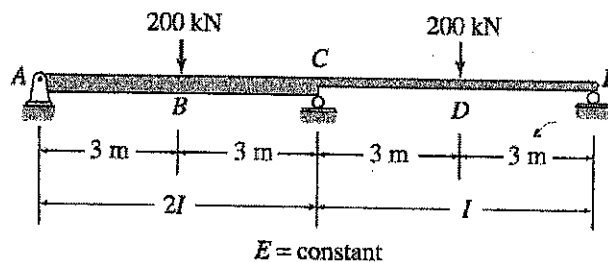


(iii) Frame

**Q.2.** Draw the Shear force and Bending Moment diagram for the given structure. (4)



**Q.3.** Solve the given beam by using Force Method and draw the bending moment diagram for the same. (5)



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