## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

## TEST -1 EXAMINATION- September 2016

M.Tech. - I Semester

COURSE CODE: 11M1WCE111

MAX. MARKS: 15

COURSE NAME: ADVANCED STRUCTURAE ANALYSIS

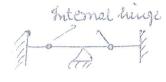
**COURSE CREDITS: 03** 

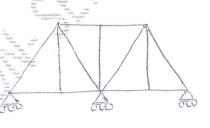
MAX. TIME: 1Hr

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 given structure.

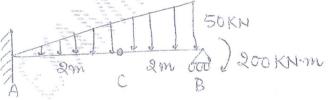
(3)



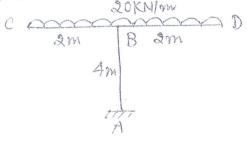


Q.2. Draw the Shear force and bending moment diagram for the given beam. At point C beam (4)

have an internal hinge.



Q.3. Find the deflection at point D of the given frame. EI is constant for all members. (3)



Q.4. Analyze the given beam by Force Method. A spring of spring constant K is attached at the middle of the beam. Also find compression in spring. (5)

