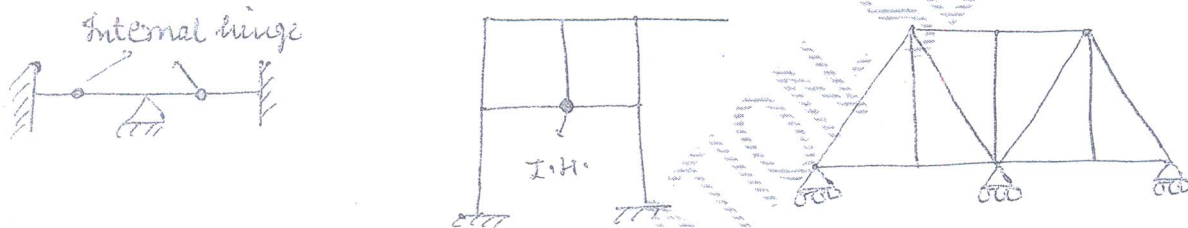


*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means*

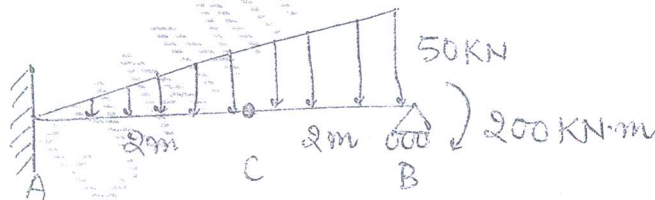
Q.1. Find the Static and Kinematic indeterminacy of the given structure.

(3)



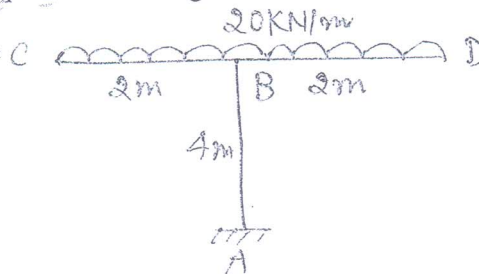
Q.2. Draw the Shear force and bending moment diagram for the given beam. At point C beam have an internal hinge.

(4)



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)

