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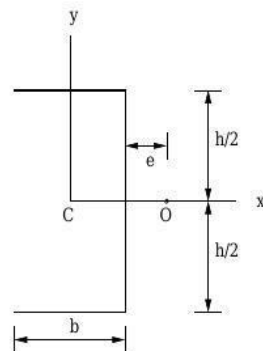
Department of Civil Engineering, N. I. T. Rourkela
END-SEMESTER EXAMINATION, April, 2016
M.Tech. 2nd Semester (Time: 3 hours, Full Marks 50)

Stability of Structures (CE-620)

Answer **ANY FIVE** questions

(The figures at the right hand margin indicate marks)

1. Derive a general expression for the deflection of a simply supported beam-column of span L subjected to a concentrated load of magnitude Q at a distance c from the right hand support and an axial compressive force P . From the expression show that the effect of the compressive force on the maximum deflection of a beam at the centre with concentrated load at the centre is given by $\chi(u) = \frac{3(\tan u - u)}{u^3}$ where $u = \frac{kl}{2}$ and $k = \sqrt{\frac{P}{EI}}$. [10]
2. Show how the trigonometric series can be applied for the approximate deflection expression of a beam subjected to (a) concentrated load at the centre and (b) uniformly distributed load over the whole span, and estimate the errors in comparison to the exact deflections. [10]
3. From the fourth-order differential equation estimate the critical buckling load of a column of span L with (a) one end fixed and other end pinned, and (b) with both ends fixed. [10]
4. Assume the deflected shape of a cantilever column to be that of a beam subjected to a concentrated load Q at the tip and applying the energy method determine the approximate critical load of the cantilever column. [10]
5. Assume a proper deflected shape of a cantilever column buckled under uniformly distributed load (self weight) and estimate its critical buckling load by applying Rayleigh-Ritz method. [10]
6. Derive the differential equation for the nonuniform torsion of a bar of any open section. [10]
7. Evaluate the warping constant C_ω for the channel section shown. [10]



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