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- 6. a) A hollow rectangular column is having external and internal dimensions as (12M) 120cm deep x 80 cm wide and 90 cm deep x 50cm wide respectively. A vertical load of 200kN is transmitted in the vertical plane bisecting 120 cm side at an eccentricity of 10cm from the geometric axis of the section. Calculate the maximum and minimum stresses in the section.
  - b) What do you mean by direct stress and bending stress? (3M)
- 7. Determine the position of shear centre for an unequal I-section shown in the (15M) below figure.



8. Derive the forces in members AD and BD and AC by method of joints. (15M)



