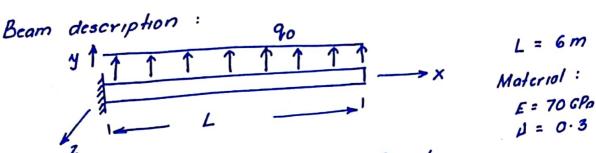
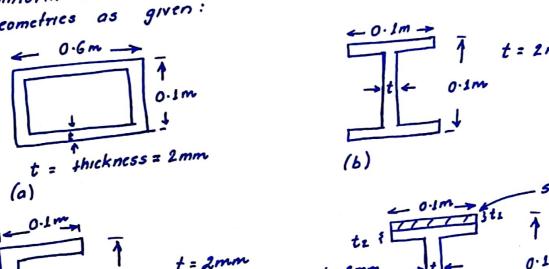
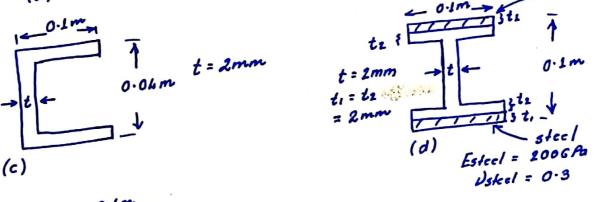
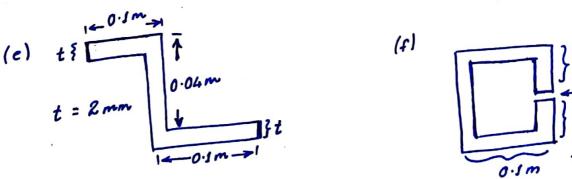
## ASSIGNMENT (Bending)



Uniform cross-section with different geometries as given:







Q1: If 90 = \$3000 N/m, then draw

(a) Shear force distribution (b) Bending moment distribution

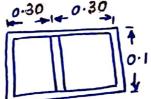
Q2: At  $\chi=0$ ,  $\chi=3m$  obtain the bending stress distribution for the cross-sections (a) - (f). Determine location and value of  $6\pi \times 1$  max

- Q3: (a) At x = 0, 3m obtain the shear flow in the cross-section.

  Give variation of 9xs(4) for the section.
  - (b) Find shear centre for each case
  - (c) Show that the shear flow indeed gives the shear force as the resultant.
    - (d) Find location and value of maximum

94: For the mult-celled section shown, obtain the bending stress distribution and shear flow.

t = 2mm



\* SUBMIT (by 3<sup>rd</sup> Nov.): Q1; Q2 for sections (b), (f);
Q3 for sections (o), (b), (e), (f);