

Answer any five questions
All questions carry equal marks

1. Draw stress - strain curve for a mild steel rod subjected to tension and explain about the salient points on it. [15]
2. Derive a relation for change in length of a tapered bar hanging freely under its own weight. [15]
3. Derive the relationship between shear force, bending moment and rate of loading at a section of a beam. [15]
4. A steel plate of width 120 mm and thickness 20 mm is bent into a circular arc of radius 10 m. Determine the maximum stress induced and the bending moment which will produce the maximum stress. Take $E = 2 \times 10^5 \text{ N/mm}^2$. [15]
5. The shear force acting on a section of beam as shown in Figure 1 is 50 kN. The moment of inertia about the horizontal neutral axis is $314.221 \times 10^4 \text{ mm}^4$. Calculate the shear stress at the neutral axis and at the junction of the web and the flange. [15]

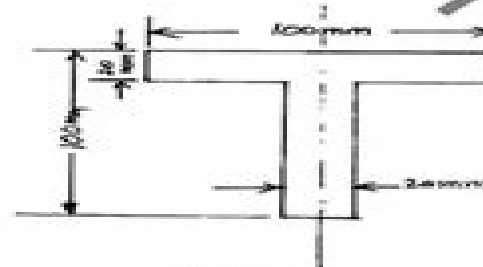


Figure: 1

Sample Question Paper Mechanics Scheme

Jiyuan Zhang



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