

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]

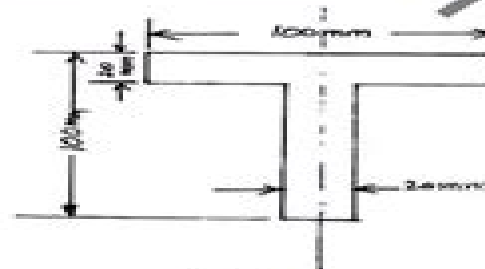


Figure: 1

# Sample Question Paper Mechanics Scheme

**John Stuart Mackenzie**



**Sample Question Paper Mechanics Scheme:**

## **Sample Question Paper Mechanics Scheme** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Sample Question Paper Mechanics Scheme**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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