#### Code No: 53016

#### JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year I Semester Examinations, October - 2020

#### MECHANICS OF SOLIDS (Common to ME, AE, AME)

Time; 2 hours

Max. Marks: 75

### Answer any five questions All questions carry equal marks

- Draw stress strain curve for a mild steel rod subjected to tension and explain about the salient points on it. [15]
- Derive a Mation for change in length of a tapered bar hanging freely under its own weight. [15]
- Derive the relationship between shear force, bending moment and rate of loading at a section of a beam. [15]
- A steel plate of width 120 hum 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=2×10<sup>5</sup>N/mm<sup>2</sup>. [15]
- The shear force acting on a section of began as shown in Figure 1 is 50 KN. The
  moment of inertia about the horizontal neutral axis is 314.221×10<sup>4</sup> mm<sup>4</sup>.
  Calculate the shear stress at the neutral axis and at the function of the web and the
  flange.

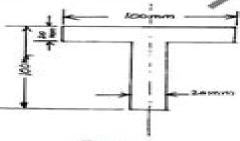


Figure: 1

# **Sample Question Paper Mechanics Scheme**

**D** Keegan

**Sample Question Paper Mechanics Scheme:** 

Whispering the Secrets of Language: An Mental Journey through Sample Question Paper Mechanics Scheme

In a digitally-driven world wherever displays reign supreme and immediate connection drowns out the subtleties of language, the profound techniques and mental nuances hidden within phrases frequently go unheard. Yet, located within the pages of **Sample Question Paper Mechanics Scheme** a charming fictional prize blinking with raw feelings, lies a fantastic quest waiting to be undertaken. Composed by a talented wordsmith, that enchanting opus encourages readers on an introspective trip, lightly unraveling the veiled truths and profound impact resonating within the very fabric of each and every word. Within the emotional depths of the moving evaluation, we shall embark upon a genuine exploration of the book is core styles, dissect their charming writing style, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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# **Sample Question Paper Mechanics Scheme Introduction**

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