#### 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.

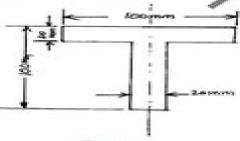


Figure: 1

# **Sample Question Paper Mechanics Scheme**

Puja Mehta

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