#### 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.

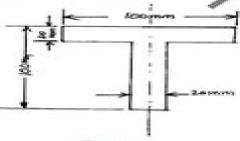


Figure: 1

# **Sample Question Paper Mechanics Scheme**

Joacim Rocklöv

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## **Table of Contents Sample Question Paper Mechanics Scheme**

- 1. Understanding the eBook Sample Question Paper Mechanics Scheme
  - The Rise of Digital Reading Sample Question Paper Mechanics Scheme
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Sample Question Paper Mechanics Scheme
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Sample Question Paper Mechanics Scheme
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sample Question Paper Mechanics Scheme
  - Personalized Recommendations
  - Sample Question Paper Mechanics Scheme User Reviews and Ratings
  - Sample Question Paper Mechanics Scheme and Bestseller Lists
- 5. Accessing Sample Question Paper Mechanics Scheme Free and Paid eBooks
  - Sample Question Paper Mechanics Scheme Public Domain eBooks
  - Sample Question Paper Mechanics Scheme eBook Subscription Services
  - Sample Question Paper Mechanics Scheme Budget-Friendly Options

- 6. Navigating Sample Question Paper Mechanics Scheme eBook Formats
  - o ePub, PDF, MOBI, and More
  - Sample Question Paper Mechanics Scheme Compatibility with Devices
  - Sample Question Paper Mechanics Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sample Question Paper Mechanics Scheme
  - Highlighting and Note-Taking Sample Question Paper Mechanics Scheme
  - Interactive Elements Sample Question Paper Mechanics Scheme
- 8. Staying Engaged with Sample Question Paper Mechanics Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sample Question Paper Mechanics Scheme
- 9. Balancing eBooks and Physical Books Sample Question Paper Mechanics Scheme
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Sample Question Paper Mechanics Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Sample Question Paper Mechanics Scheme
  - Setting Reading Goals Sample Question Paper Mechanics Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sample Question Paper Mechanics Scheme
  - Fact-Checking eBook Content of Sample Question Paper Mechanics Scheme
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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