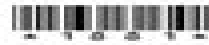


**B.E. (Civil Engineering) Third Semester (C.B.S.)**  
**Strength of Materials**

P. Pages : 3

Time : Three Hours



NIR/KW/18/3293

Max. Marks : 80

- Notes :
1. All questions carry marks as indicated.
  2. Solve Question 1 OR Questions No. 2.
  3. Solve Question 3 OR Questions No. 4.
  4. Solve Question 5 OR Questions No. 6.
  5. Solve Question 7 OR Questions No. 8.
  6. Solve Question 9 OR Questions No. 10.
  7. Solve Question 11 OR Questions No. 12.
  8. Due credit will be given to neatness and adequate dimensions.
  9. Assume suitable data whenever necessary.
  10. Use of non programmable calculator is permitted.

1. a) A bar of steel is length ' $\ell$ ' and is uniform thickness ' $t$ '. The width of bar varies from ' $a$ ' at one end to ' $b$ ' at other end. Find the extension of the rod when it carries an axial pull ' $P$ '. 6
- b) A rigid bar ABC hinged at point A & supported by steel & Aluminum rod at B & C as shown in fig. 1 A load of 20 kN is applied at point D. Find the stress induced and the elongation of both rods. 7
- $A_{St} = 1000 \text{ mm}^2$ ,  $\ell_{St} = 2000 \text{ mm}$   
 $A_{Al} = 100 \text{ mm}^2$ ,  $\ell_{Al} = 500 \text{ mm}$   
Take,  $E_{St} = 2 \times 10^5 \text{ N/mm}^2$ ,  $E_{Al} = 0.8 \times 10^5 \text{ N/mm}^2$

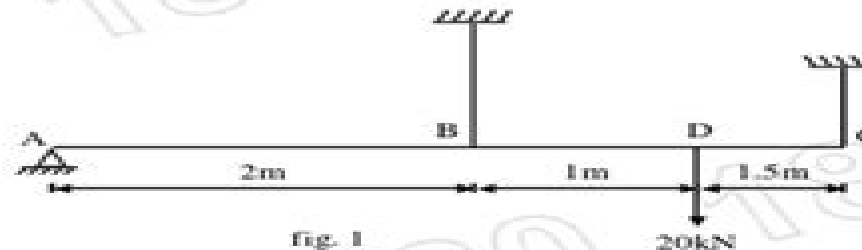


fig. 1

OR

2. a) A flat bar of steel 20 mm wide and 5 mm thick is placed between two aluminum bars each 20 mm wide & 7.5 mm thick to form a composite bar of 20×20 mm. These bars are fastened together at their ends. When the temp. of each is 20°C, find the stresses in each when temp. of whole assembly is raised to 70°C. 7
- $\alpha_g = 12 \times 10^{-5} / ^\circ\text{C}$ ,  $E_g = 2.1 \times 10^5 \text{ N/mm}^2$ ,  
 $\alpha_Q = 24 \times 10^{-5} / ^\circ\text{C}$ ,  $E_Q = 0.71 \times 10^5 \text{ N/mm}^2$
- b) Define Poisson's ratio and state the relation between three elastic constant E, G and K. 6

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**Clemens Wendtner**



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## **Table of Contents Mechanics Of Materials 3rd Semester Engineering Text**

1. Understanding the eBook Mechanics Of Materials 3rd Semester Engineering Text
  - The Rise of Digital Reading Mechanics Of Materials 3rd Semester Engineering Text
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanics Of Materials 3rd Semester Engineering Text
  - 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 Mechanics Of Materials 3rd Semester Engineering Text
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanics Of Materials 3rd Semester Engineering Text
  - Personalized Recommendations
  - Mechanics Of Materials 3rd Semester Engineering Text User Reviews and Ratings
  - Mechanics Of Materials 3rd Semester Engineering Text and Bestseller Lists
5. Accessing Mechanics Of Materials 3rd Semester Engineering Text Free and Paid eBooks
  - Mechanics Of Materials 3rd Semester Engineering Text Public Domain eBooks
  - Mechanics Of Materials 3rd Semester Engineering Text eBook Subscription Services

- Mechanics Of Materials 3rd Semester Engineering Text Budget-Friendly Options
- 6. Navigating Mechanics Of Materials 3rd Semester Engineering Text eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanics Of Materials 3rd Semester Engineering Text Compatibility with Devices
  - Mechanics Of Materials 3rd Semester Engineering Text Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanics Of Materials 3rd Semester Engineering Text
  - Highlighting and Note-Taking Mechanics Of Materials 3rd Semester Engineering Text
  - Interactive Elements Mechanics Of Materials 3rd Semester Engineering Text
- 8. Staying Engaged with Mechanics Of Materials 3rd Semester Engineering Text
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanics Of Materials 3rd Semester Engineering Text
- 9. Balancing eBooks and Physical Books Mechanics Of Materials 3rd Semester Engineering Text
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanics Of Materials 3rd Semester Engineering Text
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanics Of Materials 3rd Semester Engineering Text
  - Setting Reading Goals Mechanics Of Materials 3rd Semester Engineering Text
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanics Of Materials 3rd Semester Engineering Text
  - Fact-Checking eBook Content of Mechanics Of Materials 3rd Semester Engineering Text
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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