

Fifth Semester B.E. Degree Examination, June/July 2014
Design of Machine Elements - I

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer FIVE full questions, selecting at least TWO questions from each part.
 2. Use of design data handbook is permitted.

PART - A

1. a. Draw the stress-strain diagrams for a ductile material and a brittle material and show the salient points on them. (05 Marks)
 b. For the stress-element shown in Fig.Q1(b), find the principal stresses and directions. (06 Marks)



Fig.Q1(b)

- c. Determine the maximum normal stress and shear stress for the figure shown in Fig.Q1(c). (09 Marks)

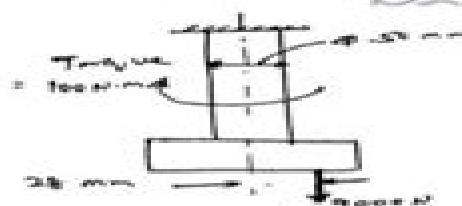


Fig.Q1(c)



Fig.Q2(b)

2. a. Explain the following theories of failure:
 (i) Maximum shear stress theory (ii) Distortion energy theory. (05 Marks)
 b. A flat plate subjected to a tensile force of 5 kN is shown in Fig.Q2(b). The plate material is grey cast iron having $\sigma_{ultimate} = 200$ MPa. Determine the thickness of the plate. Factor of safety is 2.5. (08 Marks)
 c. A weight 600 N drops through a height of 20 mm and impacts the center of 300 mm-long simply supported circular cross section beam. Find the diameter of the beam and the maximum deflection, if the allowable stress is limited to 90 MPa. Neglect the inertia effect and take $E = 200$ GPa. (07 Marks)
3. a. Derive Soderberg's equation for ductile material. (05 Marks)
 b. A hot rolled steel rod is subjected to a torsional load that varies from +330 N-m clockwise to 110 N-m counter clockwise and an applied bending moment varies from +440 N-m to -220 N-m. The rod is of uniform cross-section. Determine the required rod diameter. The material has an ultimate tensile strength of 550 MPa and a yield strength of 410 MPa. Design based on a factor of safety of 1.5. Take the endurance limit as half the ultimate strength. (15 Marks)

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Table of Contents Grade 1mechanical Technology Question Paper June

1. Understanding the eBook Grade 1mechanical Technology Question Paper June
 - The Rise of Digital Reading Grade 1mechanical Technology Question Paper June
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 1mechanical Technology Question Paper June
 - 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 Grade 1mechanical Technology Question Paper June
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 1mechanical Technology Question Paper June
 - Personalized Recommendations
 - Grade 1mechanical Technology Question Paper June User Reviews and Ratings
 - Grade 1mechanical Technology Question Paper June and Bestseller Lists

5. Accessing Grade 1mechanical Technology Question Paper June Free and Paid eBooks
 - Grade 1mechanical Technology Question Paper June Public Domain eBooks
 - Grade 1mechanical Technology Question Paper June eBook Subscription Services
 - Grade 1mechanical Technology Question Paper June Budget-Friendly Options
6. Navigating Grade 1mechanical Technology Question Paper June eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 1mechanical Technology Question Paper June Compatibility with Devices
 - Grade 1mechanical Technology Question Paper June Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 1mechanical Technology Question Paper June
 - Highlighting and Note-Taking Grade 1mechanical Technology Question Paper June
 - Interactive Elements Grade 1mechanical Technology Question Paper June
8. Staying Engaged with Grade 1mechanical Technology Question Paper June
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 1mechanical Technology Question Paper June
9. Balancing eBooks and Physical Books Grade 1mechanical Technology Question Paper June
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 1mechanical Technology Question Paper June
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 1mechanical Technology Question Paper June
 - Setting Reading Goals Grade 1mechanical Technology Question Paper June
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 1mechanical Technology Question Paper June
 - Fact-Checking eBook Content of Grade 1mechanical Technology Question Paper June
 - 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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