

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

III B.Tech II Semester Model Question Paper DESIGN OF STEEL STRUCTURES Civil Engineering

Time: 3 hours

Max Marks: 75

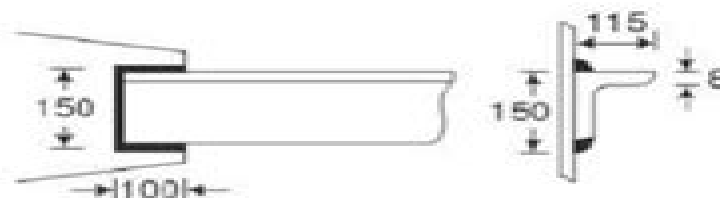
Answer any FIVE Questions
All Questions carry equal marks

NOTE: Code of Practice: IS: 800-2007, IS: 875 & Steel Tables are Permitted

1. a) Briefly explain the possible limit states that are considered in the limit state method of design of steel structures?
b) Briefly explain the various structural stability checks considered by the IS Code? [7+8]
2. a) How do you classify the bolted Connections?
b) Two plates 12 mm and 20 mm thick are to be joined by Double Cover Butt joint. Design the joint for the following data.

| | |
|-----------------------------------|------------|
| Factored design load | 750 kN |
| Bolt diameter | 20 mm |
| Grade of steel | Fc 410 |
| Grade of bolts | 4.6 |
| Cover plates 2 (one on each side) | 8 mm thick |

[5+10]
3. a) Explain the various factors affecting the strength of tension members?
b) Compute the tensile strength of an angle section is a 150x115x8 mm of Fc 410 grade of steel connected with the gusset plate as shown in fig.... For the following cases:
 - a.) Gross section yielding
 - b.) Net section rupture[5+10]



4. A column 4m long has to support a factored load of 6000 kN. The column is effectively held at both the ends and restrained in direction at one of the ends. Design the column using

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Victor M. Corman



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Proceedings of the American Society of Civil Engineers American Society of Civil Engineers,1906 Vols for Jan 1896

Sept 1930 contain a separately page section of Papers and discussions which are published later in revised form in the society s Transactions Beginning Oct 1930 the Proceedings are limited to technical papers and discussions while Civil engineering contains items relating to society activities etc

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Table of Contents Civil Engineering Structural Steel Design Question Paper

1. Understanding the eBook Civil Engineering Structural Steel Design Question Paper
 - The Rise of Digital Reading Civil Engineering Structural Steel Design Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Civil Engineering Structural Steel Design Question Paper
 - 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 Civil Engineering Structural Steel Design Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Civil Engineering Structural Steel Design Question Paper

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

- Fact-Checking eBook Content of Civil Engineering Structural Steel Design Question Paper
 - 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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