

- (B) $\tau A_m t$
- (C) $2\tau A_m t$
- (D) $4\tau A_m t$

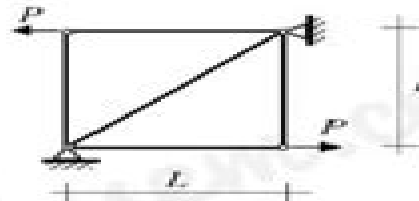
Answer: (C)

Q.No. 50 According to IS 456 - 2000, which one of the following statements about the depth of neutral axis $X_{u,bal}$ for a balanced reinforced concrete section is correct?

- (A) $X_{u,bal}$ depends on the grade of concrete only.
- (B) $X_{u,bal}$ depends on the grade of steel only.
- (C) $X_{u,bal}$ depends on both the grade of concrete and grade of steel.
- (D) $X_{u,bal}$ does not depend on the grade of concrete and grade of steel.

Answer: (B)

Q.No. 51 All the members of the planar truss (see figure), have the same properties in terms of area of cross-



section (A) and modulus of elasticity (E). For the loads shown on the truss, the statement that correctly represents the nature of forces in the members of the truss is:

- (A) There are 3 members in tension, and 2 members in compression
- (B) There are 2 members in tension, 2 members in compression, and 1 zero-force member
- (C) There are 2 members in tension, 1 member in compression, and 2 zero-force members
- (D) There are 2 members in tension, and 3 zero-force members

Answer: (D)

Q.No. 52 In a soil investigation work at a site, Standard Penetration Test (SPY) was conducted at every 1.5 m interval up to 30 m depth. At 3 m depth, the observed number of hammer blows for three successive 150 mm penetrations were 8, 6 and 9, respectively. The SPT N-value at 3 m depth, is

- (A) 23
- (B) 17
- (C) 15
- (D) 14

Answer: (C)

Q.No. 53 A body floating in a liquid is in a stable state of equilibrium if its

- (A) metacentre lies above its centre of gravity

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Table of Contents Gate Previous Year Question Papers With Solutions For Mechanical

1. Understanding the eBook Gate Previous Year Question Papers With Solutions For Mechanical
 - The Rise of Digital Reading Gate Previous Year Question Papers With Solutions For Mechanical
 - Advantages of eBooks Over Traditional Books
2. Identifying Gate Previous Year Question Papers With Solutions For Mechanical
 - 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 Gate Previous Year Question Papers With Solutions For Mechanical
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gate Previous Year Question Papers With Solutions For Mechanical
 - Personalized Recommendations
 - Gate Previous Year Question Papers With Solutions For Mechanical User Reviews and Ratings
 - Gate Previous Year Question Papers With Solutions For Mechanical and Bestseller Lists
5. Accessing Gate Previous Year Question Papers With Solutions For Mechanical Free and Paid eBooks
 - Gate Previous Year Question Papers With Solutions For Mechanical Public Domain eBooks
 - Gate Previous Year Question Papers With Solutions For Mechanical eBook Subscription Services
 - Gate Previous Year Question Papers With Solutions For Mechanical Budget-Friendly Options

6. Navigating Gate Previous Year Question Papers With Solutions For Mechanical eBook Formats
 - ePub, PDF, MOBI, and More
 - Gate Previous Year Question Papers With Solutions For Mechanical Compatibility with Devices
 - Gate Previous Year Question Papers With Solutions For Mechanical Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gate Previous Year Question Papers With Solutions For Mechanical
 - Highlighting and Note-Taking Gate Previous Year Question Papers With Solutions For Mechanical
 - Interactive Elements Gate Previous Year Question Papers With Solutions For Mechanical
8. Staying Engaged with Gate Previous Year Question Papers With Solutions For Mechanical
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gate Previous Year Question Papers With Solutions For Mechanical
9. Balancing eBooks and Physical Books Gate Previous Year Question Papers With Solutions For Mechanical
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gate Previous Year Question Papers With Solutions For Mechanical
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gate Previous Year Question Papers With Solutions For Mechanical
 - Setting Reading Goals Gate Previous Year Question Papers With Solutions For Mechanical
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gate Previous Year Question Papers With Solutions For Mechanical
 - Fact-Checking eBook Content of Gate Previous Year Question Papers With Solutions For Mechanical
 - 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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