

Course: MEC107::ENGINEERING MECHANICS

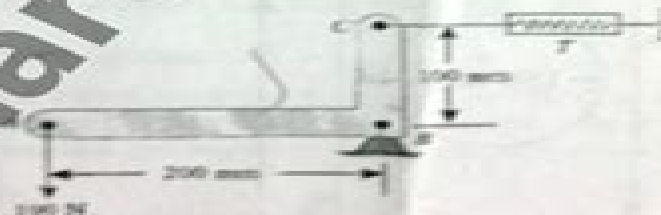
Time Allowed: 1.5 hr.

Max. Marks: 50

1. This paper contains 5 questions divided in three parts.
2. Part A is compulsory.
3. From Part B & C taken together (i.e. question 3 to 5) attempt any 2 questions out of 3.
4. Attempt all parts of the question chosen.
5. The marks assigned to each question are shown at the end of each question.
6. Answer all questions in serial order.

Part A

- Q1.a) What is center of gravity of a body? [2 Marks]
- b) What are the equilibrium conditions? [2 Marks]
- c) Explain the Three Fundamental's Law of Newton. [2 Marks]
- d) Explain Free body diagram with diagram. [2 Marks]
- e) What are the assumption made, while finding out the forces in the various members of a Truss structure? [2 Marks]
- Q2.a) Explain Parallelogram law and proof with diagram. [5 Marks]
- b) Figure shows a crank lever ABC with the tension spring (T) the lever weighs 0.2 N/mm. Determine the tension developed in the spring.



[5 Marks]

Part B

- Q3. An inclined truss is loaded as shown. Determine the nature and magnitude of the forces in the members BC, GC and GF of the truss.

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Table of Contents Mechanical Engineering Test Papers

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

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