

code: 15A03302

Tech II Year I Semester (R15) Regular & Supplementary Examinations November/December 2
ENGINEERING MECHANICS

(Mechanical Engineering)

me: 3 hours

Max. Marks:

PART – A
(Compulsory Question)

Answer the following: (10 X 02 = 20 Marks)

- Write a brief note on degrees of freedom.
- State Lamé's theorem.
- Write short notes on cone of friction and centrifugal tension in flat belt drive.
- State the laws of Coulomb friction.
- Define the term centroid.
- What is parallel axis theorem related to moments of area? Illustrate with a neat sketch.
- State the assumptions necessary for the analysis of a plane projectile motion.
- Define constrained motion.
- Define time period and cyclic frequency of a vibrating system.
- What is center of percussion?

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

Using the method of projections, find the magnitude and direction of the resultant R of 11 concurrent forces as shown in figure below and having magnitude $F_1 = 1500$ N, $F_2 = 21$ N, $F_3 = 3500$ N and $F_4 = 1000$ N.



Engineering Mechanics Question Previous Paper

G.S. Dulikravich, Mana Tanaka



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Table of Contents Engineering Mechanics Question Previous Paper

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

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