

SCHEME - E

Sample Test Paper – I

Course Name : Civil, Mechanical and Electrical Engineering group

Course Code : CE/CS/CR/ME/PG/PT/AE/MH/FE/EE/EP

Semester : Second

Subject Title : Engineering Mechanics

Max Marks : 25

12015

Time: 1 Hour

Instructions:

- 1] All questions are compulsory.
- 2] Figures to the right indicate full marks.
- 3] Use of non-programmable calculator is permissible.

Q.1 Attempt THREE of the following:

(3 x 3 = 9)

- a) What is the meaning of Vector quantity? Give two example.
- b) State three characteristics of the couple.
- c) Define Equilibrant for coplanar concurrent force system.
- d) State Lami's theorem.
- e) State relationship between resultant & equilibrant.

Q.2 Attempt TWO of the following:

(4 x 2 = 8)

- a) Two forces of magnitudes 30 N and 50 N are acting at a point making an angle of 40° between them. Calculate the magnitude and the position of resultant with respect to 30 N force.
- b) Calculate the moment at a point 'A' for the plate as shown in fig.-1.

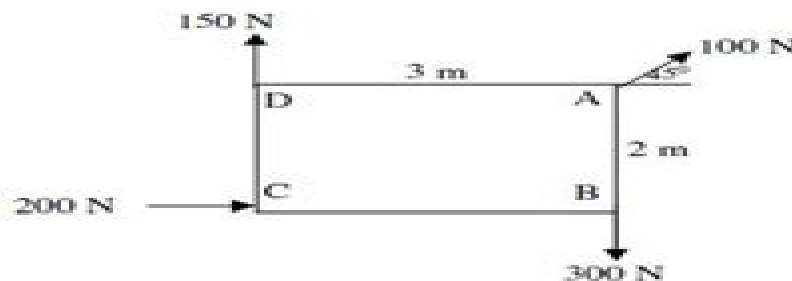


Fig.- 1
[Q no. 2 (b)]

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Table of Contents Msbte Sample Paper Second Year Mechanical Engineering

1. Understanding the eBook Msbte Sample Paper Second Year Mechanical Engineering
 - The Rise of Digital Reading Msbte Sample Paper Second Year Mechanical Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Msbte Sample Paper Second Year Mechanical Engineering
 - 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 Msbte Sample Paper Second Year Mechanical Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Msbte Sample Paper Second Year Mechanical Engineering
 - Personalized Recommendations
 - Msbte Sample Paper Second Year Mechanical Engineering User Reviews and Ratings
 - Msbte Sample Paper Second Year Mechanical Engineering and Bestseller Lists
5. Accessing Msbte Sample Paper Second Year Mechanical Engineering Free and Paid eBooks
 - Msbte Sample Paper Second Year Mechanical Engineering Public Domain eBooks
 - Msbte Sample Paper Second Year Mechanical Engineering eBook Subscription Services
 - Msbte Sample Paper Second Year Mechanical Engineering Budget-Friendly Options
6. Navigating Msbte Sample Paper Second Year Mechanical Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Msbte Sample Paper Second Year Mechanical Engineering Compatibility with Devices
 - Msbte Sample Paper Second Year Mechanical Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Sample Paper Second Year Mechanical Engineering
 - Highlighting and Note-Taking Msbte Sample Paper Second Year Mechanical Engineering
 - Interactive Elements Msbte Sample Paper Second Year Mechanical Engineering

8. Staying Engaged with Msbte Sample Paper Second Year Mechanical Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Sample Paper Second Year Mechanical Engineering
9. Balancing eBooks and Physical Books Msbte Sample Paper Second Year Mechanical Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Msbte Sample Paper Second Year Mechanical Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Msbte Sample Paper Second Year Mechanical Engineering
 - Setting Reading Goals Msbte Sample Paper Second Year Mechanical Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Msbte Sample Paper Second Year Mechanical Engineering
 - Fact-Checking eBook Content of Msbte Sample Paper Second Year Mechanical Engineering
 - 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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