Scheme-E

Sample Question Paper

- Course Name: Mechanical Engineering Group
- Course Code : ME/PT/PG/AE/MH
- Semester : Fourth
- Subject Title: Theory of Machines and Mechanisms
- Marks : 100

Time: 3 Hour

12089

Instructions:

- 1. All questions are compulsory.
- Figures to the right indicate full marks.
- Use of non-programmable calculator is permissible.
- Illustrate your answer with neat sketches wherever necessary.
- Preferably, write the answers in sequential order.

Q.1 A) Attempt Any SIX of the following:

12 Marks

- a) Define kinematic link and kinematic pair.
- b) List type of constrained motion.
- c) Define rolling pair with one example.
- d) Study the coupler rod of locomotive given in figure and identify the type of kinematic pairs.



- e) List four types of followers.
- Define the pressure angle as related to cam.
- g) State advantages of Rope drive.
- State causes of vibrations in machines.

Q.1 B) Attempt any TWO of the following:

- 08 Marks
- a) Draw a sketch and explain the working principle of Geneva mechanism.
- b) Draw labeled sketch of Oldhams Coupling.
- c) Distinguish between machine and structure on the basis of
 - i) Motion ii) Type of entity transferred iii) Mechanism iv) Application

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Table of Contents Msbte Sample Question Paper 5th Sem Mechanical

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

- 6. Navigating Msbte Sample Question Paper 5th Sem Mechanical eBook Formats
 - o ePub, PDF, MOBI, and More
 - Msbte Sample Question Paper 5th Sem Mechanical Compatibility with Devices
 - Msbte Sample Question Paper 5th Sem Mechanical Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Msbte Sample Question Paper 5th Sem Mechanical
 - Highlighting and Note-Taking Msbte Sample Question Paper 5th Sem Mechanical
 - Interactive Elements Msbte Sample Question Paper 5th Sem Mechanical
- 8. Staying Engaged with Msbte Sample Question Paper 5th Sem Mechanical
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Msbte Sample Question Paper 5th Sem Mechanical
- 9. Balancing eBooks and Physical Books Msbte Sample Question Paper 5th Sem Mechanical
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Msbte Sample Question Paper 5th Sem Mechanical
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Msbte Sample Question Paper 5th Sem Mechanical
 - Setting Reading Goals Msbte Sample Question Paper 5th Sem Mechanical
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msbte Sample Question Paper 5th Sem Mechanical
 - Fact-Checking eBook Content of Msbte Sample Question Paper 5th Sem Mechanical
 - 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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