

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

12089

Time: 3 Hour

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Use of non-programmable calculator is permissible.
4. Illustrate your answer with neat sketches wherever necessary.
5. 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.
- f) Define the pressure angle as related to cam.
- g) State advantages of Rope drive.
- h) 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 Sample Question Paper Of Msbte 3rd Semester 2012

1. Understanding the eBook Sample Question Paper Of Msbte 3rd Semester 2012
 - The Rise of Digital Reading Sample Question Paper Of Msbte 3rd Semester 2012
 - Advantages of eBooks Over Traditional Books
2. Identifying Sample Question Paper Of Msbte 3rd Semester 2012
 - 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 Sample Question Paper Of Msbte 3rd Semester 2012
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Question Paper Of Msbte 3rd Semester 2012
 - Personalized Recommendations
 - Sample Question Paper Of Msbte 3rd Semester 2012 User Reviews and Ratings
 - Sample Question Paper Of Msbte 3rd Semester 2012 and Bestseller Lists

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 - Sample Question Paper Of Msbte 3rd Semester 2012 eBook Subscription Services
 - Sample Question Paper Of Msbte 3rd Semester 2012 Budget-Friendly Options
6. Navigating Sample Question Paper Of Msbte 3rd Semester 2012 eBook Formats
 - ePub, PDF, MOBI, and More
 - Sample Question Paper Of Msbte 3rd Semester 2012 Compatibility with Devices
 - Sample Question Paper Of Msbte 3rd Semester 2012 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sample Question Paper Of Msbte 3rd Semester 2012
 - Highlighting and Note-Taking Sample Question Paper Of Msbte 3rd Semester 2012
 - Interactive Elements Sample Question Paper Of Msbte 3rd Semester 2012
8. Staying Engaged with Sample Question Paper Of Msbte 3rd Semester 2012
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sample Question Paper Of Msbte 3rd Semester 2012
9. Balancing eBooks and Physical Books Sample Question Paper Of Msbte 3rd Semester 2012
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sample Question Paper Of Msbte 3rd Semester 2012
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sample Question Paper Of Msbte 3rd Semester 2012
 - Setting Reading Goals Sample Question Paper Of Msbte 3rd Semester 2012
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sample Question Paper Of Msbte 3rd Semester 2012
 - Fact-Checking eBook Content of Sample Question Paper Of Msbte 3rd Semester 2012
 - 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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