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Number

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IV Semester Diploma Examination, May 2011

MECHANICAL ENGINEERING BOARD

## MACHINE DESIGN &amp; THEORY OF MACHINES

Time : 3 Hours ]

[ Max. Marks : 100

- Notes : (1) Question No. – 1 is compulsory.  
 (2) Answer any two full questions from Sections – II, III & IV.  
 (3) Missing data may be suitably assumed.

## SECTION – I

1. (a) Fill in the blanks : 5 × 1 = 5
- (i) Shaft with collars at both ends fitted in a circular hole is \_\_\_\_\_ pair.
- (ii) Two shafts A and B are of the same material. Diameter of A is twice as that of B. The power transmitted by the shaft A will be \_\_\_\_\_ times that of by Shaft B.
- (iii) The frictional torque transmitted in a flat pivot bearing considering uniform pressure is \_\_\_\_\_.
- (iv) The size of the cam depends upon \_\_\_\_\_.
- (v) The power transmitted by a belt is maximum when the maximum tension is equal to \_\_\_\_\_ times the centrifugal tension.
- (b) Sketch and explain elliptical trammel. 5

## SECTION – II

2. (a) Define the following : 4
- (i) Kinematic pair
- (ii) Structure
- (b) Differentiate machine and structure. 4
- (c) Explain with neat sketch, the Oldham's coupling. 7

[Turn over

# Mechanical Engineering Model Answer Paper Diploma

**J Elliott**



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## **Table of Contents Mechanical Engineering Model Answer Paper Diploma**

1. Understanding the eBook Mechanical Engineering Model Answer Paper Diploma
  - The Rise of Digital Reading Mechanical Engineering Model Answer Paper Diploma
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Model Answer Paper Diploma
  - 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 Model Answer Paper Diploma
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Model Answer Paper Diploma
  - Personalized Recommendations
  - Mechanical Engineering Model Answer Paper Diploma User Reviews and Ratings
  - Mechanical Engineering Model Answer Paper Diploma and Bestseller Lists
5. Accessing Mechanical Engineering Model Answer Paper Diploma Free and Paid eBooks
  - Mechanical Engineering Model Answer Paper Diploma Public Domain eBooks

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