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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

# Diploma In Mechanical Engineering Question Paper

**M Tight**



**Diploma In Mechanical Engineering Question Paper:**

## Reviewing **Diploma In Mechanical Engineering Question Paper**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Diploma In Mechanical Engineering Question Paper**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Table of Contents Diploma In Mechanical Engineering Question Paper**

1. Understanding the eBook Diploma In Mechanical Engineering Question Paper
  - The Rise of Digital Reading Diploma In Mechanical Engineering Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Diploma In Mechanical Engineering Question 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 Diploma In Mechanical Engineering Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Diploma In Mechanical Engineering Question Paper
  - Personalized Recommendations
  - Diploma In Mechanical Engineering Question Paper User Reviews and Ratings
  - Diploma In Mechanical Engineering Question Paper and Bestseller Lists

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