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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

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**RC Schank**



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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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