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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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**JA Banks**



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## **Table of Contents Mechanical Engineering Science N1 Question Papers**

1. Understanding the eBook Mechanical Engineering Science N1 Question Papers
  - The Rise of Digital Reading Mechanical Engineering Science N1 Question Papers
  - Advantages of eBooks Over Traditional Books
2. Identifying Mechanical Engineering Science N1 Question Papers
  - 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 Science N1 Question Papers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mechanical Engineering Science N1 Question Papers
  - Personalized Recommendations
  - Mechanical Engineering Science N1 Question Papers User Reviews and Ratings

- Mechanical Engineering Science N1 Question Papers and Bestseller Lists
- 5. Accessing Mechanical Engineering Science N1 Question Papers Free and Paid eBooks
  - Mechanical Engineering Science N1 Question Papers Public Domain eBooks
  - Mechanical Engineering Science N1 Question Papers eBook Subscription Services
  - Mechanical Engineering Science N1 Question Papers Budget-Friendly Options
- 6. Navigating Mechanical Engineering Science N1 Question Papers eBook Formats
  - ePub, PDF, MOBI, and More
  - Mechanical Engineering Science N1 Question Papers Compatibility with Devices
  - Mechanical Engineering Science N1 Question Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Engineering Science N1 Question Papers
  - Highlighting and Note-Taking Mechanical Engineering Science N1 Question Papers
  - Interactive Elements Mechanical Engineering Science N1 Question Papers
- 8. Staying Engaged with Mechanical Engineering Science N1 Question Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Engineering Science N1 Question Papers
- 9. Balancing eBooks and Physical Books Mechanical Engineering Science N1 Question Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Engineering Science N1 Question Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Science N1 Question Papers
  - Setting Reading Goals Mechanical Engineering Science N1 Question Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Science N1 Question Papers
  - Fact-Checking eBook Content of Mechanical Engineering Science N1 Question Papers
  - 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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