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IV Semester Diploma Examination, May 2011

MECHANICAL ENGINEERING BOARD

MACHINE DESIGN & 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 : $5 \times 1 = 5$

- (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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professionalization in this time period Cheap and Tasteful Dwellings thoroughly explores the results of these competitions conducted over a thirty year period from 1879 to 1909. The book outlines the philosophy behind and procedures developed for running the competitions. It looks at characteristics of the eighty six winners of the competitions, examines the nature of architectural practices during the period, analyzes the winning competition designs and provides biographical details of competition winners and losers. A landmark book in architectural history, Cheap and Tasteful Dwellings makes a compelling case for the theory of convenient arrangement, its history, its role, its principles, its relationship to contemporary interior design education and its meaning to American architecture. More importantly, the book explains the impact of Carpentry and Building contests in furthering the tenets of convenient arrangement for house design. By using extensive material from the magazine Jennings leaves little doubt as to how important this overlooked story is to the history of American architecture as a whole.

Engineering News and American Contract Journal, 1893 **Power**, 1893 **Machinery**, 1898

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Table of Contents Diploma In Mechanical Engineering Question Papers

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

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