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V Semester Diploma Examination, November 2011

**AUTOMOBILE ENGINEERING BOARD**

**MACHINE DESIGN**

Time : 3 Hours ]

[ Max. Marks : 100

- Note :**
- (1) Section – A is compulsory.
  - (2) Answer any two full questions from remaining questions.
  - (3) Any missing data may be suitably assumed.

**SECTION – A**

1. (a) Fill in the blanks : 1 × 5 = 5
- (i) A key made from a cylindrical disc having segmental cross section is known as \_\_\_\_\_.
  - (ii) If 'd' is inner diameter of hub then outside diameter of hub is \_\_\_\_\_.
  - (iii) A bolt of M24 × 2 means that \_\_\_\_\_.
  - (iv) The maximum shear stress theory is used for \_\_\_\_\_ materials, in the design of shafts.
  - (v) The material used for lining of friction surfaces of a clutch should have \_\_\_\_\_ coefficient of friction.
- (b) Explain general procedure of machine design. 5

**SECTION – B**

2. (a) Define 6
- (i) Rational design and
  - (ii) Empirical design
- (b) An eye bolt is to be used for lifting a load of 60 kN. Find the nominal diameter of the bolt, if the tensile stress is not to exceed 100 MPa.  
Assume coarse threads. 9
3. (a) Mention the types of shafts and describe the standard sizes of shafts. 5
- (b) State the various forms of screw threads and explain BSW threads. 10
4. (a) Explain 'Gib head Key' with sketch. 5
- (b) Design the rectangular key for a shaft of 50 mm diameter. The shearing and crushing stresses for the key material are 42 MPa and 70 MPa.  
Assume width of key = 16 mm  
And thickness of key = 10 mm 10

# Diploma Fourth Semester Automobile Engineering Question Paper

**Mark Steyvers**



**Diploma Fourth Semester Automobile Engineering Question Paper:**

## **Diploma Fourth Semester Automobile Engineering Question Paper** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Diploma Fourth Semester Automobile Engineering Question Paper**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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### **Table of Contents Diploma Fourth Semester Automobile Engineering Question Paper**

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

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