



WINTER – 2022 EXAMINATION  
Model Answer

**Subject Name:** Fluid Mechanics and Machinery

**Subject Code:** 22445

**Important Instructions to examiners:**

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more importance (Not applicable for subject English and Communication Skills).
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.
- 8) As per the policy decision of Maharashtra State Government, teaching in English/Marathi and Bilingual (English + Marathi) medium is introduced at first year of AICTE diploma Programme from academic year 2021-2022. Hence if the students in first year (first and second semesters) write answers in Marathi or bilingual language (English + Marathi), the Examiner shall consider the same and assess the answer based on matching of concepts with model answer.

Q. No.	Sub Q. N.	Answer	Marking Scheme
Que.1		Attempt any <u>FIVE</u> of the following	10 Marks
	a)	Define fluid pressure intensity and pressure head.	
	Sol.	<p><b>Pressure intensity:</b> The force acting on the area in the normal direction is called as pressure intensity.</p> <p><b>Pressure head:</b> Pressure head is defined as the vertical height or the free surface above any point in a fluid at rest.</p>	01 Mark for each definition
	b)	Convert 10 N/cm <sup>2</sup> pressure in oil column of specific gravity 0.82	
	Sol.	<p><math>P = 10 \text{ N/cm}^2 = 10 \times 10^4 \text{ N/m}^2</math></p> <p>Density of Oil = <math>\rho_o = 0.82 \times 1000 = 820 \text{ kg/m}^3</math></p> <p>Pressure in oil column = <math>H = P / \rho_o g</math></p> <p><math>= P / (\rho_o \times g) = (10 \times 10^4) / (820 \times 9.81) = 12.43 \text{ m of Oil}</math></p>	01 Mark  01 Mark

# Mechanical Engineering Model Answer Paper Diploma

**Michael Rajnik**



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In some sort of driven by information and connectivity, the power of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Mechanical Engineering Model Answer Paper Diploma**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written 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 effect on readers.

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### **Table of Contents Mechanical Engineering Model Answer Paper Diploma**

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

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