

#### MAHARASHTRA STATE BOARD OF TECHNICAL EDUCATION

(ISO/IEC - 27001 - 2013 Certified)

#### WINTER – 2022 EXAMINATION Model Answer

### Subject Name: Fluid Mechanics and Machinery

Subject Code:

22445

#### Important Instructions to examiners:

- The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 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.
- 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.
- In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 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 FIVE of the following	10 Marks
	a)	Define fluid pressure intensity and pressure head.	
	Sol.	Pressure intensity: The force acting on the area in the normal direction is called as pressure Intensity.  Pressure head: Pressure head is defined as the vertical height or the free surface above any point in a fluid at rest.	01 Mark for each definition
	ь)	Convert 10 N/cm² pressure in oil column of specific gravity 0.82	
	Sol.	P = 10 N/cm <sup>2</sup> = 10 X 10 <sup>4</sup> N/m <sup>2</sup> Density of Oil = ρ <sub>0</sub> = 0.82 X 1000 = 820 kg/m <sup>3</sup> Pressure in oil column = H = P /W	01 Mark
_		Pressure in oil column = H = P/W = P/( $\rho_0 \times g$ ) = $(10 \times 10^4)/(820 \times 9.81)$ = 12.43 m of Oil	01 Mark

# **Msbte Model Answer Paper Of Winter 2012**

**G Psacharopoulos** 

**Msbte Model Answer Paper Of Winter 2012:** 

## Msbte Model Answer Paper Of Winter 2012 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 capacity to inspire, provoke, and ignite change. Such is the essence of the book **Msbte Model Answer Paper Of Winter 2012**, 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 affect readers.

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# **Table of Contents Msbte Model Answer Paper Of Winter 2012**

- 1. Understanding the eBook Msbte Model Answer Paper Of Winter 2012
  - The Rise of Digital Reading Msbte Model Answer Paper Of Winter 2012
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Msbte Model Answer Paper Of Winter 2012
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Msbte Model Answer Paper Of Winter 2012
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Msbte Model Answer Paper Of Winter 2012
  - Personalized Recommendations
  - Msbte Model Answer Paper Of Winter 2012 User Reviews and Ratings

- Msbte Model Answer Paper Of Winter 2012 and Bestseller Lists
- 5. Accessing Msbte Model Answer Paper Of Winter 2012 Free and Paid eBooks
  - Msbte Model Answer Paper Of Winter 2012 Public Domain eBooks
  - Msbte Model Answer Paper Of Winter 2012 eBook Subscription Services
  - Msbte Model Answer Paper Of Winter 2012 Budget-Friendly Options
- 6. Navigating Msbte Model Answer Paper Of Winter 2012 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Msbte Model Answer Paper Of Winter 2012 Compatibility with Devices
  - Msbte Model Answer Paper Of Winter 2012 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Msbte Model Answer Paper Of Winter 2012
  - Highlighting and Note-Taking Msbte Model Answer Paper Of Winter 2012
  - Interactive Elements Msbte Model Answer Paper Of Winter 2012
- 8. Staying Engaged with Msbte Model Answer Paper Of Winter 2012
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Msbte Model Answer Paper Of Winter 2012
- 9. Balancing eBooks and Physical Books Msbte Model Answer Paper Of Winter 2012
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Msbte Model Answer Paper Of Winter 2012
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Msbte Model Answer Paper Of Winter 2012
  - Setting Reading Goals Msbte Model Answer Paper Of Winter 2012
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Msbte Model Answer Paper Of Winter 2012
  - Fact-Checking eBook Content of Msbte Model Answer Paper Of Winter 2012
  - 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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