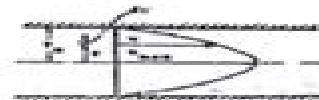


Part A

3. (a) Define: (i) surface tension (ii) vapour pressure (iii) Newtonian fluid 3  
(b) "Viscosity of liquid decreases with temperature, but viscosity of ~~gases~~ 3/2  
increases with temperature"-explain.  
(c) In the laminar flow of a fluid through a pipe (ID=20 cm) of circular cross section the velocity profile ( $u = u_{max}[1-(r/r_m)^2]$ ) is exactly a parabola (Figure below). Calculate the shear stress at the wall, 2 cm away from the wall and at the center line. Consider the water as fluid (density 1000 kg/m<sup>3</sup>, viscosity= 0.0011 N.s/m<sup>2</sup>) and following at 0.5 L/s.



- (a) What is average pressure intensity? Show that variation of pressure in a static fluid in vertical direction can be expressed as  $\frac{dp}{dz} = -\gamma$ , where  $\gamma$  is the specific weight. 6  
(b) At a certain altitude it was found that water boils at 80 °C. What is the atmospheric pressure at that altitude? 3  
(c) In the figure, atmospheric pressure is 100 kN/m<sup>2</sup>, abs, the gage reading is 50 kN/m<sup>2</sup>, abs, the vapor pressure of alcohol is 12 kN/m<sup>2</sup>, abs. Compute x and y. 6



- (a) Define: (i) dimensional analysis (ii) kinematic similarity 2  
(b) Drag force ( $F_D$ ) exerted on a sphere as it moves through a viscous liquid is a function of diameter of sphere ( $D$ ), velocity ( $v$ ), density ( $\rho$ ), and viscosity ( $\mu$ ). Show that  $F_D = \rho v^2 D^2 f^*(Re)$ . 7  
(c) Derive the general equation for conduit friction. 6  
4. (a) What is the physical significance of the Reynold's number? How is it define for i) flow in a circular pipe of inner diameter  $D$  and ii) flow in rectangular duct of cross section  $a \times b$ . 4  
(b) What is hydraulic grade line (HGL)? How does it differ does it differ from the energy grade line (EGL)? How the hydraulic gr. line and the energy grade line are obtained for free discharge from a reservoir through a horizontal pipe with a diffuser. Under what condition do both lines coincide with free surface of liquid? 7  
(c) Write down the three-common fluid flow measuring devices mentioning their area of application. 4

# Fluid Mechanics N5 Question Papers And Answers

**Marcel A. Müller**



## **Fluid Mechanics N5 Question Papers And Answers:**

## **Fluid Mechanics N5 Question Papers And Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Fluid Mechanics N5 Question Papers And Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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### **Table of Contents Fluid Mechanics N5 Question Papers And Answers**

1. Understanding the eBook Fluid Mechanics N5 Question Papers And Answers
  - The Rise of Digital Reading Fluid Mechanics N5 Question Papers And Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Mechanics N5 Question Papers And Answers
  - 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 Fluid Mechanics N5 Question Papers And Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Mechanics N5 Question Papers And Answers
  - Personalized Recommendations
  - Fluid Mechanics N5 Question Papers And Answers User Reviews and Ratings
  - Fluid Mechanics N5 Question Papers And Answers and Bestseller Lists

5. Accessing Fluid Mechanics N5 Question Papers And Answers Free and Paid eBooks
  - Fluid Mechanics N5 Question Papers And Answers Public Domain eBooks
  - Fluid Mechanics N5 Question Papers And Answers eBook Subscription Services
  - Fluid Mechanics N5 Question Papers And Answers Budget-Friendly Options
6. Navigating Fluid Mechanics N5 Question Papers And Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Fluid Mechanics N5 Question Papers And Answers Compatibility with Devices
  - Fluid Mechanics N5 Question Papers And Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Fluid Mechanics N5 Question Papers And Answers
  - Highlighting and Note-Taking Fluid Mechanics N5 Question Papers And Answers
  - Interactive Elements Fluid Mechanics N5 Question Papers And Answers
8. Staying Engaged with Fluid Mechanics N5 Question Papers And Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Fluid Mechanics N5 Question Papers And Answers
9. Balancing eBooks and Physical Books Fluid Mechanics N5 Question Papers And Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Fluid Mechanics N5 Question Papers And Answers
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Fluid Mechanics N5 Question Papers And Answers
  - Setting Reading Goals Fluid Mechanics N5 Question Papers And Answers
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fluid Mechanics N5 Question Papers And Answers
  - Fact-Checking eBook Content of Fluid Mechanics N5 Question Papers And Answers
  - 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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