

5. (a) The fluid of specific gravity 0.95 is flowing through a taper pipe of length 50m having diameter 40cm at the upper end and 20cm at the lower end. The rate of flow is 60 lit/Sec. The pressure at the higher end is 24.52 N/cm^2 . Find the pressure at the lower end the slope of the pipe is 1 in 30. 6
- (b) A tank has two identical orifices in one of its vertical sides. The upper orifice is 2m below the water surface and lower one is 4m below the water surface. If the value of the coefficient of velocity for each orifice is 0.9. Find the point of intersection of two jets. 8
- (c) Describe Laboratory method of determination of 'Cd', 'Cc' and Cv of an orifice. 6
6. (a) Derive an expression for the discharge over a rectangular notch in terms of head of water over two notch. 6
- (b) A 40m long weir is divided into 12 equal bays by vertical posts each 0.6m wide. Using Francis formula calculate the discharge over the weir under an effective head of 1m and velocity of approach 2m/sec. 8
- (c) Describe the terms :— 6
- Velocity potential function
 - Stream function
 - flow net.
7. (a) Describe with neat diagram the following term :— 8
- Source
 - Sink
 - Doublet
 - Vortex flow.
- (b) (i) The following cases represent the two velocity components determine the third component of velocity such that they satisfy the continuity equation 6
- $U = x^2 + y^2 + z^2$, $V = xy^2 - yz^2 + xy$
 - $V = y^2$, $W = 3xyz$
- (c) The velocity vector in a fluid flow is given by $V = 3x^3i - 8x^2yj + 3tk$. Find the velocity of the fluid particle at (2, 1, 3) at time $t = 1$. 6

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Table of Contents Fluid Mechanics 2012 Question Paper

1. Understanding the eBook Fluid Mechanics 2012 Question Paper
 - The Rise of Digital Reading Fluid Mechanics 2012 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Fluid Mechanics 2012 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 Fluid Mechanics 2012 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fluid Mechanics 2012 Question Paper
 - Personalized Recommendations
 - Fluid Mechanics 2012 Question Paper User Reviews and Ratings
 - Fluid Mechanics 2012 Question Paper and Bestseller Lists
5. Accessing Fluid Mechanics 2012 Question Paper Free and Paid eBooks
 - Fluid Mechanics 2012 Question Paper Public Domain eBooks
 - Fluid Mechanics 2012 Question Paper eBook Subscription Services
 - Fluid Mechanics 2012 Question Paper Budget-Friendly Options

6. Navigating Fluid Mechanics 2012 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Fluid Mechanics 2012 Question Paper Compatibility with Devices
 - Fluid Mechanics 2012 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fluid Mechanics 2012 Question Paper
 - Highlighting and Note-Taking Fluid Mechanics 2012 Question Paper
 - Interactive Elements Fluid Mechanics 2012 Question Paper
8. Staying Engaged with Fluid Mechanics 2012 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fluid Mechanics 2012 Question Paper
9. Balancing eBooks and Physical Books Fluid Mechanics 2012 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fluid Mechanics 2012 Question Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fluid Mechanics 2012 Question Paper
 - Setting Reading Goals Fluid Mechanics 2012 Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fluid Mechanics 2012 Question Paper
 - Fact-Checking eBook Content of Fluid Mechanics 2012 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

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