

Fourth Semester B.E. Degree Examination, December 2011
Fluid Mechanics

Time: 3 hrs.

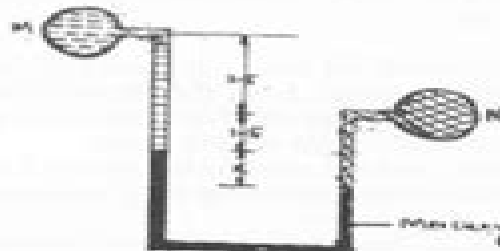
Max. Marks: 100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART - A

1.
 - a. Define the following properties of a fluid and mention the phenomena associated with each property i) Capillarity and ii) Surface tension. (04 Marks)
 - b. Define compressibility. Derive an expression for the bulk modulus of elasticity for a perfect gas, undergoing the isothermal process. (06 Marks)
 - c. Calculate the capillary effect in mm in a glass tube of 3mm diameter, when, immersed in mercury. The value of the surface tension for mercury at 20°C in contact with air is 0.51 N/m. Contact angle for mercury = 130°. Also sketch the mercury surface inside and outside the tube indicating the angle of contact clearly. (06 Marks)
 - d. If the equation of velocity profile over a flat plate is $V = 2y^{2/3}$ where 'v' is the velocity in m/s and 'y' is the distance in m, determine shear stress at $y = 75$ mm. Take $\mu = 8.35$ poise. (04 Marks)
2.
 - a. Define : i) Buoyancy and centre of buoyancy ; ii) Metacentre and metacentric height. (04 Marks)
 - b. Show that the centre of pressure lies below the centre of gravity of the vertical surface submerged in a liquid. (08 Marks)
 - c. As shown in the Fig.Q.2(c), pipe M contains carbon tetrachloride of specific gravity 1.594 under a pressure of 1.05 bar and pipe N contains oil of specific gravity 0.8. If the pressure in the pipe N is 1.75 bar and the manometric fluid is mercury, find the difference x between the levels of mercury. (08 Marks)

Fig.Q.2(c)



3.
 - a. Differentiate between :
 - i) Lagrangian approach and Eulerian approach.
 - ii) Steady flow and uniform flow. (04 Marks)
 - b. Derive with usual notations, the continuity equation for 3 - D flow in the form $\frac{\partial \rho}{\partial t} + \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} = 0$. Modify the equation for steady flow and incompressible flow. (10 Marks)
 - c. Sketch the streamlines represented by $\psi = x^2 + y^2$. Also find out the velocity and its direction at the point (1, 2). (06 Marks)

Fluid Mechanics N5 Question Papers An

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Table of Contents Fluid Mechanics N5 Question Papers An

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

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