



Third Semester B.E. Degree Examination, June/July 2019 Fluid Mechanics

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing
ONE full question from each module.

Module-1

- 1 a. Define the following with symbols and units :
i) Weight density
ii) Specific volume
iii) Density. (06 Marks)
- b. What do you mean by single column manometer? Derive the expression for vertical single column manometer. (06 Marks)
- c. The right limb of a simple U-tube manometer containing mercury is open to the atmosphere while the left limb is connected to a pipe which a fluid of sp.gr. 0.9 is flowing. The centre of the pipe is 12cm below the level of the mercury in the right limb. Find the pressure of fluid in the pipe. If difference of mercury level in the two limb is 20cm. (08 Marks)

OR

- 2 a. What is capillarity? Derive an expression for capillarity rise for a liquid in a glass tube. (06 Marks)
- b. Explain difference between i) absolute and gauge pressure ii) Newtonian and non Newtonian iii) ideal fluid and real fluid iv) simple manometer and differential manometer. (08 Marks)
- c. Calculate pressure due to a column of 0.4 of i) water ii) an oil of sp.gr 0.9 and iii) mercury of sp.gr 13.6. Take density water $\rho = 1000 \text{ kg/m}^3$. (06 Marks)

Module-2

- 3 a. Derive an expression for total pressure and centre of pressure of a inclined plane surface immersed in a liquid. (08 Marks)
- b. Determine eth total pressure and depth of centre of pressure on a plane rectangular surface of 1m wide and 3m deep when its upper edge is horizontal and i) coincides with water surface ii) 2m below the free water surface. (06 Marks)
- c. A circular plate 3m diameter is immersed in water in such way that its greatest and least depth below the free surface are 4m and 1.5m respectively. Determine the total pressure on one face of the plate and position of centre of pressure. (06 Marks)

OR

- 4 a. Define :
i) Uniform and non-uniform flow
ii) Rotational and irrotational flow
iii) Stream line and path line
iv) Laminar and turbulent flow. (08 Marks)
- b. Derive the three dimensional continuity equation in the Cartesian coordinates. (06 Marks)
- c. A 40cm diameter pipe, conveying water, branches into two pipes of diameter 30cm and 20cm respectively. If the average velocity in the 40cm pipe is 3m/sec. Find the discharge in the pipe. Also determine velocity in 20cm pipe if the average velocity in 30cm diameter pipe is 2m/sec. (06 Marks)

Important Note : 1. On completing your answers, conspicuously draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and for equations within eg. 42) & 50), will be treated as malpractice.

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JL Elias



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Table of Contents Fluid Mechanics Question Paper Vtu

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

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