



## 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.

# Fluid Mechanics Question Paper Vtu

**Clayton T. Crowe, Donald F. Elger, John  
A. Roberson**



## Fluid Mechanics Question Paper Vtu:

**Physica B + C.** ,1981 Part B has subtitle Low temperature and solid state physics 1975 76 Physics of condensed matter 1977 1982 and part C has subtitle Atomic molecular and plasma physics optics *Proceedings of the 16th International Conference on Low Temperature Physics, LT-16, University of California, Los Angeles, 19-25 August 1981* ,1981 **The National Union Catalogs, 1963-** ,1964 **Fluid Mechanics Exam File** ,1985 **Fluid Mechanics Exam File** Stanley L. Klemetson,1985-01-01 *Fluid Flow Problems* Farhad Ali,Nadeem Ahmad Sheikh,2019-05-29 In physics and engineering fluid dynamics is a subdiscipline of fluid mechanics that describes the flow of fluids liquids and gases It has several subdisciplines including aerodynamics the study of air and other gases in motion and hydrodynamics the study of liquids in motion Fluid dynamics has a wide range of applications including calculating forces and moments on aircraft determining the mass flow rate of petroleum through pipelines predicting weather patterns understanding nebulae in interstellar space and modeling fission weapon detonation In this book we provide readers with the fundamentals of fluid flow problems Specifically Newtonian non Newtonian and nanofluids are discussed Several methods exist to investigate such flow problems This book introduces the applications of new exact numerical and semianalytical methods for such problems The book also discusses different models for the simulation of fluid flow **GATE XE - B Fluid Mechanics Q&a** Srinivasamoorthy M,VIJAYAKUMAR. M,2018-02-23 The book contains solution for the previous year question papers from 2012 2018 It also has important formulae for quick revision **Solving Problems in Fluid Mechanics** John F. Douglas,R. D. Matthews,1996 This second volume of two aims to help prepare students of fluid mechanics for their examinations by presenting a clear explanation of theory and application in the form of solutions to typical examination and assignment type questions Each chapter comprises start of chapter learning objectives a summary of basic theory end of chapter summaries a range of worked examples a selection of problems with answers and assignments to encourage further practice and consolidate understanding *Fluid Mechanics Problems* Bruce W. Hunt,1996 2,500 Solved Problems In Fluid Mechanics and Hydraulics Jack B. Evett,Cheng Liu,1989 This powerful problem solver gives you 2 500 problems in fluid mechanics and hydraulics fully solved step by step From Schaum s the originator of the solved problem guide and students favorite with over 30 million study guides sold this timesaver helps you master every type of fluid mechanics and hydraulics problem that you will face in your homework and on your tests from properties of fluids to drag and lift Work the problems yourself then check the answers or go directly to the answers you need using the complete index Compatible with any classroom text Schaum s 2500 Solved Problems in Fluid Mechanics and Hydraulics is so complete it s the perfect tool for graduate or professional exam review **Solving Problems in Fluid Mechanics** John Francis Douglas,1986 *Schaum's Outline of Fluid Mechanics, Second Edition* Merle C. Potter,David C. Wiggert,2020-10-09 Stay on top of your fluid mechanics course and study smarter for the Fundamentals of Engineering Exam with the thoroughly updated Schaum s Outline bestseller Tough

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