

**Fourth Semester B.E. Degree Examination, December 2010**  
**Fluid Mechanics**

Time: 3 hrs.

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, selecting at least TWO questions from each part.  
 2. Assume suitable data, if required.*

**PART – A**

1.
  - a. Differentiate between gauge pressure and absolute pressure. Represent positive and negative gauge pressures on a chart. (03 Marks)
  - b. Give reasons for the following :
    - i) Viscosity changes with temperature rise.
    - ii) Mercury ( $Hg$ ) is preferred as a manometric liquid.
    - iii) Free surface of water in a capillary tube is concave.
    - iv) Light weight objects can float on the free surface of liquids.
    - v) Metacentric height is positive for stable equilibrium of floating bodies. (10 Marks)
  - c. Derive the relation for capillary rise of water in a glass tube. (03 Marks)
  - d. A liquid bubble of 2cm radius has an internal pressure of 12.95 Pascals. Determine the surface tension of the liquid film. (04 Marks)
2.
  - a. Derive the relations for hydrostatic forces on a curved surface, which is immersed in a liquid of specific weight 'W'. (06 Marks)
  - b. With a neat sketch, explain the working of an inverted u – tube manometer. (06 Marks)
  - c. A wooden block of size 6m x 4m x 2m floats on fresh water. Depth of immersion of the wooden block is 1.2 m. A concrete block is placed centrally on the surface of the wooden block, so that,
    - i) The top surface of the wooden block touches the free surface of water
    - ii) Both wooden block and concrete block submerge completely in water.
 Assume specific gravity of concrete = 2.5. Find the volume of the concrete block in each case. (08 Marks)
3.
  - a. Derive the continuity equation for a three dimensional flow, in Cartesian co-ordinates. (08 Marks)
  - b. Show that the streamlines and equipotential lines are orthogonal to each other. (04 Marks)
  - c. A stream function represents 2-D fluid flow,  $\psi = 2xy$ . Find the velocity at a point P(3, 4). Check whether the flow is rotational. Find the velocity potential function  $\phi$ . (08 Marks)
4.
  - a. Mention the applications of model similitude. (02 Marks)
  - b. Explain the significance of non – dimension numbers.
    - i) Mach number ; ii) Froude's number ; iii) Weber number ; iv) Reynolds' number. (08 Marks)
  - c. Using Buckingham  $\pi$  - theorem, show that the velocity of fluid flow through a circular orifice is given by  $V = \sqrt{2gH} \cdot \phi\left(\frac{D}{H}, \frac{\mu}{\rho V H}\right)$ , where  
 $H$  = Head of fluid flow ;  $D$  = Diameter of the orifice  
 $\mu$  = Dynamic viscosity of the fluid ;  $\rho$  = Density of the fluid.  
 $g$  = gravitational acceleration. (10 Marks)

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**Patrick Vollmar**



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**Fluid Mechanics Exam File**, 1985      **Fluid Mechanics Exam File** Stanley L. Klemetson, 1985-01-01      **2500 Solved Problems in Fluid Mechanics and Hydraulics** Jack B. Evett, 1989      *Fluid Mechanics with Laboratory Manual* Bireswar Majumdar, 2010-10 Primarily intended for the undergraduate students of mechanical engineering civil engineering chemical engineering and other branches of applied science this book presents a comprehensive coverage of the basic laws of fluid mechanics The text also discusses the solutions of fluid flow problems that are modelled by differential equations Emphasis is placed on formulating and solving typical problems of engineering practice The text introduces the principle of fluid mechanics in a well organized manner beginning with the simple and proceeding to the complex The aim of laboratory manual at the end of chapters is to teach the students how to conduct experiments in fluid mechanics It provides the step wise details of experiments which include objective theory of the experiment apparatus used in the experiment procedure observations and graphs to be plotted Chapter end exercises enable the students to recapture the topics discussed and drill them in the theory Finally the worked out examples with solutions are useful to readers in comprehending the problems discussed The book would also prove to be a useful ready reference for the first level postgraduate student      *Solving Problems in Fluid Mechanics* John Francis Douglas, 1986      **Engineering Fluid Mechanics** Clayton T. Crowe, Donald F. Elger, John A. Roberson, 2005-09 Known for its exceptionally readable approach Engineering Fluid Mechanics carefully guides you from fundamental fluid mechanics concepts to real world engineering applications It fosters a strong conceptual understanding of fluid flow phenomena through lucid physical descriptions photographs clear illustrations and fully worked example problems With the help of over 1 100 problems you will also gain the opportunity to apply fluid mechanics principles The Eighth Edition Brings key concepts to life through a new Web based interactive tutorial that provides step by step solutions and interactive animations Presents a smoother transition from the principles of flow acceleration and the Bernoulli equation to the control volume and continuity equations Incorporates new animations to illustrate pathline streakline and streamline concepts rotationality separation and cavitation Follows a physical visual approach to help you gain an intuitive understanding of the principles of fluid dynamics Applies theoretical principles in practical designs to help develop your engineering creativity

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