



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 written eg. 42×50 , will be treated as malpractice.

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B Lingard



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Engineering Fluid Mechanics, Student Solutions Manual Clayton T. Crowe, Donald F. Elger, John A. Roberson, 2002-01-10 This reader friendly book fosters a strong conceptual understanding of fluid flow phenomena through lucid physical descriptions photographs clear illustrations and fully worked example

problems More than 1 100 problems including open ended design problems and computer oriented problems provide an opportunity to apply fluid mechanics principles Throughout the authors have meticulously reviewed all problems solutions and text material to ensure accuracy 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 *Solution of Problems in Fluid Mechanics* John F. Douglas,1973

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