

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 ϕ . (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 π - 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
 μ = Dynamic viscosity of the fluid ; ρ = Density of the fluid.
 g = gravitational acceleration. (10 Marks)

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**Clayton T. Crowe, Donald F. Elger, John
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web spec 4f specification for drilling and well servicing structures 4th edition january 2013 addendum 1 december 2016 rp 4g operation inspection maintenance and repair of drilling and well servicing structures 4th edition april 2012 errata 1 september 2013 addendum 1 august 2016

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