

Fourth Semester B.E. Degree Examination, December 2011
Fluid Mechanics

Time: 3 hrs.

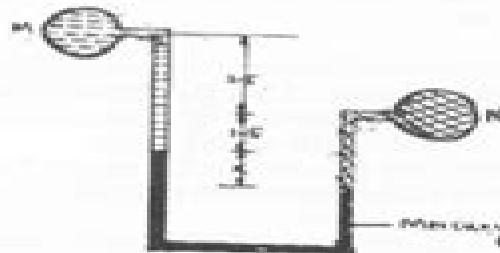
Max. Marks: 100

*Note: Answer any FIVE full questions, selecting
at least TWO questions from each part.*

PART - A

1.
 - a. Define the following properties of a fluid and mention the phenomena associated with each property i) Capillarity and ii) Surface tension. (04 Marks)
 - b. Define compressibility. Derive an expression for the bulk modulus of elasticity for a perfect gas, undergoing the isothermal process. (06 Marks)
 - c. Calculate the capillary effect in mm in a glass tube of 3mm diameter, when, immersed in mercury. The value of the surface tension for mercury at 20°C in contact with air is 0.51 N/m. Contact angle for mercury = 130°. Also sketch the mercury surface inside and outside the tube indicating the angle of contact clearly. (06 Marks)
 - d. If the equation of velocity profile over a flat plate is $V = 2y^{2/3}$ where 'v' is the velocity in m/s and 'y' is the distance in m, determine shear stress at $y = 75$ mm. Take $\mu = 8.35$ poise. (04 Marks)
2.
 - a. Define : i) Buoyancy and centre of buoyancy ; ii) Metacentre and metacentric height. (04 Marks)
 - b. Show that the centre of pressure lies below the centre of gravity of the vertical surface submerged in a liquid. (08 Marks)
 - c. As shown in the Fig.Q.2(c), pipe M contains carbon tetrachloride of specific gravity 1.594 under a pressure of 1.05 bar and pipe N contains oil of specific gravity 0.8. If the pressure in the pipe N is 1.75 bar and the manometric fluid is mercury, find the difference x between the levels of mercury. (08 Marks)

Fig.Q.2(c)



3.
 - a. Differentiate between :
 - i) Lagrangian approach and Eulerian approach.
 - ii) Steady flow and uniform flow. (04 Marks)
 - b. Derive with usual notations, the continuity equation for 3 - D flow in the form $\frac{\partial \rho}{\partial t} + \frac{\partial(\rho u)}{\partial x} + \frac{\partial(\rho v)}{\partial y} + \frac{\partial(\rho w)}{\partial z} = 0$. Modify the equation for steady flow and incompressible flow. (10 Marks)
 - c. Sketch the streamlines represented by $\psi = x^2 + y^2$. Also find out the velocity and its direction at the point (1, 2). (06 Marks)

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