

Fourth Semester B.E. Degree Examination, June-July 2009

Fluid Mechanics

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions.
2. Assume any missing data suitably.

- 1 a. Define surface tension. Sketch a liquid droplet on a solid surface when
i) Adhesion is more than cohesion
ii) Cohesion is more than adhesion
Show the angle of contact on the sketches.

A glass tube of small diameter is dipped in a mercury container vertically. Sketch the mercury surface inside and outside the tube indicating the angle of contact clearly. Obtain an expression for capillary rise/depression that would take place in this tube in terms of density of liquid, surface tension, angle of contact and local acceleration due to gravity. (10 Marks)

- b. A cylindrical shaft of 90 mm diameter rotates about a vertical axis inside a fixed cylindrical tube of length 0.5 m and 95 mm internal diameter. If the space between tube and the shaft is filled by a lubricant of viscosity 0.2 Pa.s, determine the power required to overcome viscous resistance when the shaft is rotated at a speed of 240 rpm. (10 Marks)

- 2 a. Explain clearly how the magnitude and direction of resultant hydrostatic force on a curved surface is determined. (10 Marks)
b. A hydrometer shown in Fig.Q2(b) is to be used to determine relative densities of different liquids. It has a mass of 20g. The external stem diameter is 5 mm. Find the distance between the markings corresponding to the following relative densities
i) 1.0 and 0.95; ii) 1.0 and 1.05. (10 Marks)

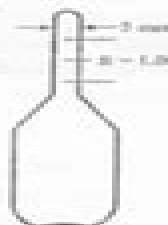


Fig.Q.2(b).

- 3 a. Define metacentric height of a floating body. Obtain an expression for metacentric height of a floating body in terms of second moment of area of its plan at water surface, submerged volume and distance between centre of gravity and centre of buoyancy of the floating body. (10 Marks)
b. If the pipe shown in Fig.Q.3(b) contains water and there is no flow, calculate the value of manometer reading h . If manometer reading $h = 50$ mm when water is flowing through the pipe, calculate the pressure difference $P_A - P_B$ in kPa. (10 Marks)

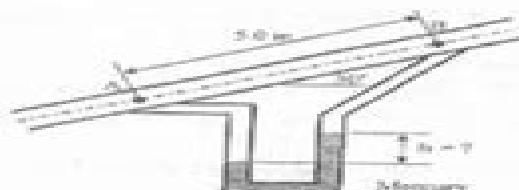


Fig.Q.3(b).

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Xiaolong Qi



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