

(Answer any 6 questions, 3 questions from each part)

Part A

3. (a) Define: (i) surface tension (ii) vapour pressure (iii) Newtonian fluid 3  
(b) "Viscosity of liquid decreases with temperature, but viscosity of ~~gases~~ 3/2  
increases with temperature"-explain.  
(c) In the laminar flow of a fluid through a pipe (ID=20 cm) of circular cross section the velocity profile ( $u = u_{max}[1-(r/r_m)^2]$ ) is exactly a parabola (Figure below). Calculate the shear stress at the wall, 2 cm away from the wall and at the center line. Consider the water as fluid (density 1000 kg/m<sup>3</sup>, viscosity= 0.0011 N.s/m<sup>2</sup>) and following at 0.5 L/s.



- (a) What is average pressure intensity? Show that variation of pressure in a static fluid in vertical direction can be expressed as  $\frac{dp}{dz} = -\gamma$ , where  $\gamma$  is the specific weight. 6  
(b) At a certain altitude it was found that water boils at 80 °C. What is the atmospheric pressure at that altitude? 3  
(c) In the figure, atmospheric pressure is 100 kN/m<sup>2</sup>, abs, the gage reading is 50 kN/m<sup>2</sup>, abs, the vapor pressure of alcohol is 12 kN/m<sup>2</sup>, abs. Compute x and y. 6



- (a) Define: (i) dimensional analysis (ii) kinematic similarity 2  
(b) Drag force ( $F_D$ ) exerted on a sphere as it moves through a viscous liquid is a function of diameter of sphere ( $D$ ), velocity ( $v$ ), density ( $\rho$ ), and viscosity ( $\mu$ ). Show that  $F_D = \rho v^2 D^2 f^*(Re)$ . 7  
(c) Derive the general equation for conduit friction. 6  
4. (a) What is the physical significance of the Reynold's number? How is it define for i) flow in a circular pipe of inner diameter  $D$  and ii) flow in rectangular duct of cross section  $a \times b$ . 4  
(b) What is hydraulic grade line (HGL)? How does it differ does it differ from the energy grade line (EGL)? How the hydraulic gr. line and the energy grade line are obtained for free discharge from a reservoir through a horizontal pipe with a diffuser. Under what condition do both lines coincide with free surface of liquid? 7  
(c) Write down the three-common fluid flow measuring devices mentioning their area of application. 4

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**Daniel F McAuley**



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