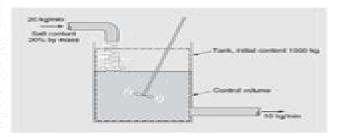
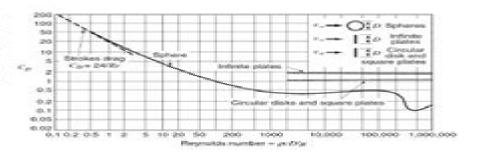
Heat Transfer Midterm Exam July 9, 2018

Name:_____ Student no.:____

- Q1) (15 points) Explain about the conditions required for deriving 1) Bernoulli equation and 2) Euler equation from the Navier-stokes equation.
- Q2) (15 points) Examine the situation illustrated in right figure. A tank initially contains 1000 kg of brine containing 10% salt by mass. An inlet stream of brine containing 20% salt by mass flows into the tank at a rate of 20 kg/min. The mixture in the tank is kept uniform by stirring Brine is removed from the tank via an outlet pipe at a rate of 10 kg/min. Find the amount of salt in the tank at any time t, and the elapsed time when the amount of salt in the tank is 200 kg.



- Q3) (15 points) Determine the dimensionless groups formed from the variables involved in the flow of fluid external to a solid body. The force exerted on the body is a function of v. p. µ, and L (a significant dimension of the body).
- Q4) (15 points) Evaluate the terminal velocity of a 7.5-mmdiameter glass sphere falling freely through (a) air at 300 K; (b) water at 300 K; and (c) glycerin at 300 K. The density of glass is 2250 kg/m³.



- Q5) (20 points) Derive the acceleration of single particle under given condition with Lagrangian point
 - 1) 2 dimensional, steady, incompressible flow
 - 2) $\vec{V} = V_1[1+(x/L)]\hat{\imath}$

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