

CH0210 Momentum Transfer Laboratory
End Semester Viva Voce

Register No. _____
Batch. _____
Max. Marks: 10

Date : ___/___/___
Time : ___:___

Instructions :

- a) Encircle the correct answer
- b) Do not encircle more than one answer

1. Which of the following is **CORRECT**? The coefficient of discharge, C_d for an orifice meter is roughly between
(a) **0.6 – 0.7** (b) 0.8 – 0.9 (c) 0.9 – 1.0 (d) none of these

2. Which one of the following is **FALSE**? The operating characteristics of a pump are conveniently shown up by plotting
(a) the head (h) against the flow rate (Q)
(b) input power (P) against the flow rate (Q)
(c) efficiency (η) against the flow rate (Q)
(d) **the flow rate (Q) against the head (h)**

3. Which of the following is **CORRECT**? The coefficient of discharge, C_d for a venturimeter is roughly between
(a) 0.6 – 0.7 (b) **0.8 – 0.9** (c) 0.9 – 1.0 (d) none of these

4. The theoretical discharge (Q) or efflux time of a tank with an area ' A_T ' fitted with an orifice at its bottom having an area A_o is calculated using the equation
(a) $Q = \frac{2 \times A_T \times (\sqrt{H_1} - H_2)}{A_o \times \sqrt{2g} \times C_d}$ (b) $Q = \frac{2 \times A_T \times (\sqrt{H_1 - H_2})}{A_o \times \sqrt{2g} \times C_d}$
(c) $Q = \frac{2 \times A_T \times \sqrt{(H_1 - \sqrt{H_2})}}{A_o \times \sqrt{2g} \times C_d}$ (d) all of these

5. In centrifugal pump the liquid enters the casing of pump, normally in an
(a) radial direction (b) **axial direction** (c) only (a) (d) none of these