## CH0210 Momentum Transfer Laboratory

Quiz
Register No. $\qquad$ Date $: \quad$ ______
Time $: \bar{l}$
Duration:
Max. Marks: 10

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

1. Which of the following relation is CORRECT? The relationship between relative and absolute pressure is given by
(a) gauge pressure + barometric pressure $=$ absolute pressure
(b) absolute pressure + barometric pressure $=$ gauge pressure
(c) all of the above
(d) none of these
2. Identify which of the following is TRUE? The increase in pressure that accompanies the decrease in velocity is called as
(a) pressure recovery
(b) pressure difference
(c) both (a) and (b)
(d) none of these
3. The theoretical discharge $(Q)$ through a sharp-crested triangular notch is proportional to
(a) $H^{1 / 2}$
(b) $H$
(c) $H^{5 / 2}$
(d) none of these
4. Which one of the following sentence is FALSE? Centrifugal pump
(a) delivers fluid at a uniform pressure without pulsations
(b) runs at lower speed than positive displacement pump
(c) both (a) and (b)
(d) all of the above
5. A triangular tank having length ' $L$ ', breadth ' $B$ ', height ' $H$ ', is used to store water. If this tank is drained, the actual discharge or the volumetric flow rate $(Q)$ in $\mathrm{m}^{3} / \mathrm{s}$ of water is identified using the expression
(a) $V=\frac{Q}{A}$
(b) $Q=\frac{L \times B \times H}{t}$
(c) both (a) and (b)
(d) none of these
6. Which of the following relation is CORRECT? The frictional head loss due to contraction of pipe is
(a) ratio of pressure drop across the pipe contraction and fluid density
(b) ratio of pressure drop across the pipe contraction and fluid viscosity
(c) all of the above
(d) none of these
7. Identify which of the following is TRUE? The Reynolds number is a
(a) dimensionless number
(b) ratio of inertial force and viscous force
(c) both (a) and (b)
(d) none of these
8. A fluid having a density of $886 \mathrm{~kg} / \mathrm{m}^{3}$ is flow in a pipe of diameter 0.2 m . If the velocity of the fluid is 2.28 $\mathrm{m} / \mathrm{s}$, the maximum flow rate in the pipe is $\qquad$ $\mathrm{kg} / \mathrm{s}$
(a) 60.2
(b) 65.1
(c) 63.5
(d) none of these
9. The overall efficiency of a pump is the ratio of
(a) output power of pump to input power of pump
(b) product of mass flow rate and head
(c) input power of pump to output power of pump
(d) none of these
10. Identify, which one of the following sentence is FALSE? In variable area meter, the drop in pressure is
(a) the drop in pressure is constant
(b) the flow rate is a function of the area of constriction
(c) the flow rate is not a function of the area of constriction
(d) all of the above
