

Chemical Engineering Fluid Mechanics Question Bank

1. ____ is used for measuring the static pressure exerted on the wall by a fluid flowing parallel to the wall in a pipeline.
- venturimeter
 - pressure gauge
 - pitot tube
 - orifice meter

As: C

2. The fluid property, due to which mercury does not wet the glass in
- surface tension
 - viscosity
 - cohesion
 - adhesion

Ans: A

3. The resistance wire used in a hot wire anemometer for conducting electrical current is made of
- copper
 - tungsten
 - chromium
 - aluminium

Ans: B

4. Which of the following is used for very accurate measurement of flow of gas at low velocity?
- pitot tube
 - rotameter
 - segmental orifice meter
 - hot wire anemometer

As: D

5. Which of the following is not concerned with the fluid particle interaction?
- drag coefficient
 - froude co-efficient
 - galileo number
 - weber number

Ans: D

6. ____ flow means the flow of incompressible fluid with no shear.
- potential

- b. streamline
- c. creep
- d. boundary layer

Ans: A

7. Mercury is an ideal barometric fluid mainly due to its
- a. high density
 - b. low compressibility
 - c. low capillary action
 - d. very low vapor pressure

Ans: D

8. The ratio of inertial forces to elastic forces is called the ____ number.
- a. reynolds
 - b. mach
 - c. euler
 - d. weber

Ans: B

9. What causes cavitation in centrifugal pump?
- a. high suction pressure
 - b. low barometric pressure
 - c. low suction pressure
 - d. high suction velocity

Ans: C

10. Steady non uniform flow is exemplified by flow through a/an
- a. long pipe at constant rate
 - b. long pipe at decreasing rate
 - c. expanding tube at increasing rate
 - d. expanding tube at constant rate

Ans: D