

## Hydraulics and Fluid Mechanics Interview Questions and Answers Pdf

1. The units of surface tension are

- a. same as units of force
- b. energy/unit area
- c. force/unit area
- d. it is dimensionless

Ans: B

2. Mercury is generally used in barometer because

- a. of higher density due to which the height of barometer will be small
- b. it has practically zero vapour pressure
- c. it shines and can be easily read
- d. it does not stick to the tube walls

Ans: A

3. Froude number is useful in calculations for

- a. water hammer
- b. flow through pipes
- c. hydraulic jump
- d. surface tension force

Ans: C

4. A simple pitot tube is used to measure

- a. the pressure in a static fluid
- b. the velocity in a flowing stream
- c. the total pressure
- d. the dynamic pressure

Ans: B

5. A rotameter is a device used to measure

- a. velocity of fluid in pipes

b. velocity of gauges

c. vortex flow

d. flow of fluids

Ans: D

6. In an isothermal atmosphere

a. pressure decreases linearly with elevation

b. pressure is constant all over

c. pressure varies in same way as density

d. pressure increases directly as the square of height

Ans: C

7. The flow of water in a pipe of diameter 3000 mm can be measured by

a. venturimeter

b. rotameter

c. nozzle

d. pitot tube

Ans: D

8. The general energy equation is applicable to

a. steady flow

b. unsteady flow

c. non-uniform flow

d. turbulent flow

Ans: A

9. One dimensional flow is

a. restricted to flow in a straight line

b. flow which neglects changes in transverse direction

c. steady uniform flow

d. uniform flow

Ans: B

10. The pressure centre is

- a. at the centroid of the submerged area
- b. the centroid of the pressure prism
- c. independent of the orientation of the area
- d. a point on the line of action of the resultant force

Ans: D