

Hydraulics and Fluid Mechanics Quiz Questions and Answers Pdf

1. Gradually varied flow is

a. steady uniform flow

b. steady non-uniform flow

c. unsteady uniform flow

d. unsteady non-uniform flow

Ans: B

2. Pascal's law states that pressure at a point is equal in all directions

a. in a liquid at rest

b. in a fluid at rest

c. in a laminar flow

d. in a turbulent flow

Ans: B

3. Pressure coefficient is the ratio of pressure forces to

a. viscous forces

b. inertia forces

c. gravity forces

d. surface tension forces

Ans: B

4. Bernoulli's theorem deals with the principle of conservation of

a. energy

b. momentum

c. mass

d. force

Ans : A

5. A current meter is used for the measurement of

a. pressure

b. velocity

c. viscosity

d. electrical charge on fluids

Ans: B

6. A hot wire anemometer is used for the measurement of

a. pressure of gases

b. velocity of gases

c. viscosity of gases

d. viscosity of liquids

Ans: B

7. The losses in an open channel vary

- a. as the velocity
- b. as the square of velocity
- c. as the cube of velocity
- d. inversely with a gradient

Ans: B

8. A critical depthmeter is always

- a. associated with surge
- b. associated with water hammer
- c. associated with hydraulic jump
- d, associated with steep gradient

Ans: C

9. Cavitation is caused by

- a. high velocity
- b. low barometric pressure

c. high pressure

d. low pressure

Ans: D

10. The centre of gravity of the volume of liquid displaced by an immersed body is called

a. wet CG

b.. Metacentre

c. centre of pressure

d. centre of buoyancy

Ans: D