

Hydraulics and Fluid Mechanics Objective Questions and Answers Pdf

1. Air vessels in a reciprocating pump are fitted to

- a. reduce the acceleration head
- b. reduce suction head
- c. increase delivery head
- d. smoothen delivery head

Ans: A

2. A Pelton wheel is

- a. inward flow impulse turbine
- b. outward flow impulse turbine
- c. inward flow reaction turbine
- d. axial flow impulse turbine

Ans: D

3. Which type of turbine is different from others?

- a. Pelton wheel
- b. Banki turbine
- c. Girard turbine
- d. Kaplan turbine

Ans: D

4. The purpose of surge tank in a pipe line is to

- a. smoothen the flow of water
- b. minimize friction losses in pipe
- c. prevent occurrence of hydraulic pump
- d. to relieve the pressure due to water hammer

Ans: D

5. The hydraulic radius is given by

- a. wetted perimeter divided by area

- b. area divided by square of wetted perimeter
- c. square root of area
- d. area divided by wetted perimeter

Ans: D

6. Relative velocity is

- a. the difference between two velocities
- b. the difference between the higher velocity and average velocity
- c. average velocity
- d. vector difference of two velocities

Ans: D

7. The boundary layer separation takes place if

- a. pressure gradient is zero
- b. pressure gradient is positive
- c. pressure gradient is negative
- d. none of the above

Ans: B

8. The magnitude of water hammer depends on

- a. the length of pipeline
- b. the speed at which the valve is closed
- c. the elastic properties of the liquid flowing through the pipe
- d. all of the above

Ans: D

9. Which of the following forces does not act in case of fluids?

- a. centrifugal force
- b. tensile force
- c. vibratory force
- d. elastic force

Ans: B

10. A type of flow in which the fluid particles while moving in the direction of flow rotate about their mass centre, is known as

- a. steady flow
- b. uniform flow
- c. laminar flow
- d. turbulent flow

Ans: D

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