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Hydraulics and Fluid Mechanics MCQ Test

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Below is the **Hydraulics and Fluid Mechanics MCQ** test that checks your basic knowledge of Hydraulics and Fluid Mechanics. This **Hydraulics and Fluid Mechanics MCQ Test** contains 20 Multiple Choice Questions. You have to select the right answer to the question. Finally, you can also take the Online Quiz from the Take **Hydraulics and Fluid Mechanics Quiz** Button.

Q1. A piezometer opening in pipes measures

- A. Velocity head
- B. Total pressure
- **C. Static pressure**
- D. None of the above

Q2. Hydrostatic pressure on a dam depends upon its

- A. Depth
- B. Shape
- C. Length
- **D. Both Depth & Shape**

Q3. The flow takes in one dimensional flow.

- A. Place in curve
- **B. Place in straight line**
- C. Place in one direction
- D. None of the above

Q4. The pressure less than atmospheric pressure is known as

- A. Suction pressure

- B. Vacuum pressure
- C. Negative gauge pressure
- D. All of the above

Q5. The maximum efficiency of transmission through a pipe is

- A. 56.7%
- B. 66.67%
- C. 76.66%
- D. None of the above

Q6. A manometer is used to measure the pressure of liquids or gases.

- A. Correct
- B. Incorrect

Q7. If the surface of liquid is convex, means

- A. Cohesion pressure is negligible
- B. Cohesion pressure is increased
- C. Cohesion pressure is decreased
- D. None of the above

Q8. What is the weight per unit volume of a liquid at standard temperature and pressure?

- A. Mass density
- B. Specific gravity
- C. Specific weight
- D. None of the above

Q9. What is the specific energy in open channels?

- A. Total energy per unit discharge
- B. Total energy measured above the horizontal datum
- C. Kinetic energy plotted above the free surface of water
- D. Total energy measured with respect to the datum passing through the bottom of the channel

Q10. When pipes are in series, then the total head loss is equal to the sum of the head loss

in each pipe.

- **A. Correct**
- B. Incorrect

Q11. The fluid is a substance that offers no resistance to change of shape.

- **A. True**
- B. False

Q12. The Volumetric change of fluid is due to

- A. Adhesion
- **B. Compressibility**
- C. Volumetric strain
- D. Volumetric index

Q13. Property of a fluid by which its own molecules are attracted is called

- A. Viscosity
- **B. Cohesion**
- C. Adhesion
- D. Compressibility

Q14. The tendency of a liquid surface to contract is due to the following property

- A. Viscosity
- B. Adhesion
- C. Cohesion
- **D. Surface tension**

Q15. Falling drops of water become spheres due to the property of

- A. Cohesion
- B. Viscosity
- **C. Surface tension**
- D. None of the above

Q16. The weight per unit volume of a liquid at a standard temperature and pressure is called

- A. Mass density
- B. Specific gravity
- **C. Specific weight**
- D. None of the above

Q17. A pitot tube is used to measure

- A. Static pressure
- B. Dynamic pressure
- **C. Stagnation pressure**
- D. None of the above

Q18. Bernoulli's equation assumes that

- A. Flow is steady
- B. Fluid is non-viscous
- C. Fluid is homogeneous
- **D. All of the above**

Q19. Unit of kinematic viscosity is

- **A. cm^2/sec**
- B. $\text{gm}/\text{cm}\text{-sec}^2$
- C. $\text{gm}/\text{cm}^2\text{-sec}$
- D. None of the above

Q20. An ideal flow of a liquid obeys

- **A. Continuity equation**
- B. Dynamic viscosity law
- C. Newton's law of viscosity
- D. Newton's second law of motion

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