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## **Hydraulics and Fluid Mechanics MCQ Test**

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#### **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.  $\text{cm}^2/\text{sec}$**
- B.  $\text{gm}/\text{cm}\cdot\text{sec}^2$
- C.  $\text{gm}/\text{cm}^2\cdot\text{sec}$
- 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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