



**5-If the Reynolds number is less than 2000, the flow in a pipe is**

- (A) Turbulent
- (B) Laminar
- (C) Transition
- (D) None of the above

**6-A flow is called super-sonic if the**

- (A) velocity of flow is very high
- (B) discharge is difficult to measure
- (C) Mach number is between 1 and 5
- (D) Mach number is less than 1

**7-The unit of pressure one bar is**

- (A) 1 Pascal
- (B) 1 kilo Pascal
- (C) 100 kPascal
- (D) 1000 kPascal

**8-The dynamic viscosity of a liquid is  $1.2 \times 10^{-4}$  Ns/m<sup>2</sup>, whereas, the density is 600 kg/m<sup>3</sup>. The kinematic viscosity in m<sup>2</sup>/s is**

- (A)  $72 \times 10^{-3}$
- (B)  $20 \times 10^{-8}$
- (C)  $7.2 \times 10^3$
- (D)  $70 \times 10^6$

**9-The location of the centre of pressure over a surface immersed in a liquid is**

- (A) always above the centroid
- (B) will be at the centroid
- (C) will be below the centroid
- (D) for higher densities it will be above the centroid and for lower densities it will be below the centroid

**10-The continuity equation is the result of application of the following law to the flow field**

- (A) First law of thermodynamics
- (B) Conservation of energy
- (C) Newtons second law of motion
- (D) Conservation of mass

**11-Reynolds number signifies the ratio of**

- (A) gravity forces top viscous forces
- (B) inertial forces to viscous forces
- (C) inertia forces to gravity forces
- (D) buoyant forces to inertia forces

**12-In pipe flow the critical Reynolds number is about**

- (A) 640
- (B)  $5 \times 10^5$
- (C) 2000
- (D) 64000

**13-Anemometer is used to measure**

- (A) Velocity
- (B) Pressure
- (C) Viscosity
- (D) Density

**14-Property of fluid that describes its internal resistance is known as:**

- (A) Viscosity
- (B) Friction
- (C) Resistance
- (D) Internal energy

**15-Which fluid does not experience shearing stress during flow?**

(A) Pseudoplastic

(B) Dilatant

(C) Newtonian

(D) Inviscid

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