

QUIZ NO: 576

TOPIC: FLUID MECHANICS

DATE: 05/04/2022

1. If shear stress is directly proportional to velocity gradient, then the fluid is known as

- [A] Ideal fluid
- [B] Real fluid
- [C] Newtonian fluid
- [D] Non-Newtonian fluid

Answer: C

2. For a liquid, the variation in its volume with the variation of pressure is known as

- [A] Viscosity
- [B] Mass density
- [C] Compressibility
- [D] Liquid pressure

Answer: C

3. The equation used for experimental measurement of viscosity is

- [A] Darcy equation
- [B] Stokes equation
- [C] Fanning equation
- [D] Hagen Poiseuille equation

Answer: D

4. The mercury does not wet the glass. This is due to the property of the liquid known as

- [A] Cohesion
- [B] Adhesion
- [C] Viscosity
- [D] Surface tension

Answer: A

5. The dynamic viscosity of most of the gases _____ with rise in temperature

- [A] Increases
- [B] Decreases
- [C] Does not change significantly
- [D] None of these

Answer: A

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6. At constant pressure, the volume (V) of a given mass of gas is directly proportional to its absolute temperature (T)

- [A] Pascal's Law
- [B] Charle's Law
- [C] Boyle's Law
- [D] Newton's Law

Answer: B

7. The pressure measured with the help of a pressure measuring instrument is called

- [A] Atmospheric pressure
- [B] Gauge pressure
- [C] Absolute pressure
- [D] All of these

Answer: B

8. 1 bar = _____ N/m²

- [A] 10²
- [B] 10³
- [C] 10⁴
- [D] 10⁵

Answer: D

9. Mercury is considered as a superior barometric fluid chiefly due to its

- [A] Negligible small vapour pressure
- [B] High specific heat
- [C] High specific gravity
- [D] Convex meniscus

Answer: C

10. The height of water column equivalent to a pressure of 2kg/cm^2 is:

- [A] 1000 cm
- [B] 100 cm
- [C] 2000 cm
- [D] 200 cm

Answer: C

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