

QUIZ NO: 523

TOPIC: FLUID MECHANICS

DATE: 27/11/2021

1. The mass per unit volume of a liquid at standard temperature and pressure is called:

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

Answer: B

2. The tendency of a small drop of fallen water to remain in a spherical form is due to the property of:

- [A] Viscosity
- [B] Adhesion
- [C] Capillary action
- [D] Surface tension

Answer: D

3. The specific weight of water in S.I units is:

- [A] 9.81gm
- [B] 981 gm
- [C] 9.81 kN/m
- [D] 9.81 x 10 kN/m

Answer: C

4. The variation in volume of a liquid with the variation of pressure is called its:

- [A] Surface tension
- [B] Compressibility
- [C] Capillarity
- [D] Viscosity

Answer: B

5. The specific gravity of water at standard temperature (4 degree celsius) equals to:

- [A] 0.999
- [B] 1
- [C] 1.01
- [D] 0.5

Answer: B

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6. To avoid correction for capillary action in manometers used for measuring pressures, minimum diameter of the tube should be:

- [A] 2.5 mm
- [B] 10 mm
- [C] 50 mm
- [D] 6 mm

Answer: D

7. The ratio of specific weight of a liquid to the specific weight of pure water at a standard temperature is called:

- [A] Density of liquid
- [B] Specific gravity of liquid
- [C] Compressibility of liquid
- [D] Surface tension of liquid

Answer: B

8. 1 atm pressure is equivalent to:

- [A] 1.315 kgf/cm
- [B] 1000 Newtons
- [C] 760 mm Hg
- [D] 14.7 pascals

Answer: C

9. Mercury is used in barometers because:

- [A] It is perfect fluid
- [B] Its volume changes with temperature
- [C] It is a liquid metal
- [D] It gives less height of column for high pressure

Answer: D

10.A barometer is used to measure:

- [A] Very low pressures
- [B] Very high pressures
- [C] Pressure difference between two points
- [D] Atmospheric pressure

Answer: D

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