

QUIZ NO: 733

TOPIC: FLUID MECHANICS

DATE: 04/07/2023

1. When a body is fully immersed in water, the point through which the resultant pressure acts is known as:

- [A] Total pressure
- [B] Gauge pressure
- [C] Centre of pressure
- [D] Absolute pressure

Answer: C

2. A floating body is said to be in stable equilibrium

- [A] When the metacentric height is zero
- [B] When the metacenter is above the CG
- [C] When the metacenter is below the CG
- [D] Only when its CH is below center of buoyancy

Answer: B

3. A piezometer is the simplest form of manometers used for measuring:

- [A] Moderate pressure of liquids
- [B] Vacuum pressure
- [C] High pressure of liquids
- [D] Gauge pressure

Answer: A

4. The law states that pressure applied at any point in a liquid at rest is transmitted equally in all directions:

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

Answer: A

5. The difference in pressure between two points is measured by:

- [A] Differential manometer
- [B] Barometer
- [C] Piezometer
- [D] Venturimeter

Answer: A

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6. If the dynamic viscosity of fluid is 0.5 poise and specific gravity is 0.5, then kinematic viscosity of that fluid in stokes is:

- [A] 0.25
- [B] 0.5
- [C] 1.0
- [D] None of these

Answer: C

7. Select the correct statement:

- [A] Absolute pressure = Gauge pressure - Atmospheric pressure
- [B] Gauge pressure = Absolute pressure – Atmospheric pressure
- [C] Absolute pressure = Atmospheric pressure + vacuum pressure
- [D] Gauge pressure = Atmospheric pressure + vacuum pressure

Answer: B

8. Vacuum or negative pressure at a flow section is:

- [A] Pressure measured always below atmospheric pressure
- [B] Pressure measured by a Bourdon gauge
- [C] Pressure indicated by a vacuum gauge
- [D] Always the pressure indicated by a differential manometer

Answer: A

9. The pressure in meters of oil ($G = 0.8$), equivalent to 80 m of water is:

- [A] 64
- [B] 80
- [C] 100
- [D] 88

Answer: C

10. Find the pressure represented by a column of 10 cm of water if specific weight of water is taken as 10 KN/m^3 :

- [A] 1 KN/m^2
- [B] 1000 KN/m^2
- [C] 1 N/m^2
- [D] 100 KN/m^2

Answer: A

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