

QUIZ NO: 524

TOPIC: FLUID MECHANICS

DATE: 30/11/2021

1. At the sea level under normal conditions the atmospheric pressure is 10.3 metres of water and its equivalent to height if mercury is used will be:

- [A] 7.6 m
- [B] 76 cm
- [C] 1.03 m
- [D] 7.6 cm

Answer: B

2. An ideal flow of any liquid must fulfil the following

- [A] Newton's Law of Viscosity
- [B] Newton's Law of Motion
- [C] Boundary Layer Theory
- [D] Continuity Equation

Answer: D

3. Vacuum pressure is equivalent to:

- [A] Atmospheric pressure - absolute pressure
- [B] Atmospheric pressure + absolute pressure
- [C] Absolute pressure-atmospheric pressure
- [D] Absolute pressure + atmospheric pressure

Answer: A

4. A body in neutral equilibrium will rotate about:

- [A] Centre of gravity & metacentre
- [B] Centre of pressure & metacentre
- [C] Centre of gravity and centre of buoyancy
- [D] Centre of gravity, centre of buoyancy & metacentre

Answer: D

5. If, for a fluid in motion, pressure at a point is same in all directions, then the fluid is

- [A] A real fluid
- [B] An ideal fluid
- [C] A Newtonian fluid
- [D] A non-Newtonian fluid

Answer: B

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6. The Prandtl mixing length for turbulent flow through pipes is:

- [A] Independent of shear stress
- [B] A universal constant
- [C] Zero at the pipe wall
- [D] Independent of radial distance from pipe axis

Answer: A

7. A cubical tank is filled with water. If side of tank is 1 m, pressure on the base of the tank will be:

- [A] 10,000kg
- [B] 5,000kg
- [C] 1000kg
- [D] 4000kg

Answer: C

8. The point at which the resultant pressure on an immersed surface acts is known as:

- [A] Centre of gravity
- [B] Centre of depth
- [C] Centre of pressure
- [D] Centre of immersed surface

Answer: C

9. Buoyant force is

- [A] The resultant force on a body due to the fluid surrounding it
- [B] The resultant force acting on a floating body
- [C] The force necessary to maintain equilibrium of a submerged body
- [D] A non-vertical force on symmetrical bodies

Answer: A

10. When a body, floating in a liquid, is given a small angular displacement, it starts oscillating about a point known as:

- [A] Centre of pressure
- [B] Centre of gravity
- [C] Centre of buoyancy
- [D] Metacentre

Answer: D

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