

QUIZ NO: 510

TOPIC: FLUID MECHANICS

DATE: 26/10/2021

1. Stagnation point is when:

- [A] When pressure is zero.
- [B] Total energy is zero.
- [C] Velocity of flow reduce to zero
- [D] Total energy is maximum

Answer: C

2. Which among the following is used to measure discharge

- [A] Venturimeter
- [B] Rotameter
- [C] Pitot tube
- [D] Both a and b

Answer: D

3. What type of fluid is Quick sand?

- [A] Shear thick
- [B] Dilatent
- [C] Shear thin
- [D] Both a and b

Answer: D

4. The shear stress- velocity gradient curve is linear for _____ fluids

- [A] Newtonian Fluids
- [B] Dilatent fluids
- [C] Pseudo plastic
- [D] Non-Newtonian fluids

Answer: A

5. Which one of the following sets of conditions clearly apply to an ideal fluid?

- [A] Viscous and compressible
- [B] Non-viscous and incompressible
- [C] Non-viscous and compressible
- [D] Viscous and incompressible

Answer: B

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6. Resultant pressure of the liquid in case of an immersed body acts through which one of the following?

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

Answer: B

7. A U- tube manometer can measure

- [A] Suction pressure
- [B] Vacuum pressure
- [C] Gauge pressure
- [D] All of these

Answer: D

8. A triangular plate having depth h is immersed vertically in water with its base coincides with the free surface. Find the centre of pressure?

- [A] $3h/4$
- [B] $3h/2$
- [C] $4h/3$
- [D] $h/2$

Answer: D

9. Streamlines, path lines and streak lines are virtually identical for

- [A] Uniform flow
- [B] Flow of ideal fluids
- [C] Steady flow
- [D] Non uniform flow

Answer: C

10. The head loss in turbulent flow in pipe varies:

- [A] Directly as the velocity
- [B] Inversely as the square of the velocity
- [C] Inversely as the square of diameter
- [D] Approximately as the square of the velocity

Answer: D

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