

QUIZ NO: 829

TOPIC: FLUID MECHANICS

DATE: 18/05/2024

1. For a horizontal surface the centre of pressure is _____ centre of gravity:

- [A] Above
- [B] Below
- [C] Coincides
- [D] None

Answer: C

2. The properties of cohesion and adhesion result in:

- [A] Compressibility
- [B] Capillarity
- [C] Viscosity
- [D] Density

Answer: B

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

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

Answer: A

4. The terminal velocity of a sphere settling in a viscous fluid varies as:

- [A] Reynold's number
- [B] Inversely proportional to viscosity
- [C] Directly proportional to viscosity
- [D] Its diameter

Answer: B

5. Surface tension has the units of force per _____

- [A] Unit length
- [B] Unit volume
- [C] Unit weight
- [D] None of the above

Answer: A

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6. A hydraulic jump occurs in a channel

- [A] Whenever the flow is supercritical
- [B] If the flow is controlled by a sluice gate
- [C] If the bed slope changes from mild to steep
- [D] If the bed slope changes from steep to mild

Answer: A

7. Of all the power plants, hydel is more disadvantageous when one compares the:

- [A] Cost of energy resource
- [B] Technical skill required
- [C] Economics that determine the choice of plant.
- [D] Nearness to load centre

Answer: D

8. A Pelton wheel is ideally suited for:

- [A] Low head and low discharge
- [B] High head and high discharge
- [C] High head and low discharge
- [D] Medium head and medium discharge

Answer: C

9. What should be the ratio of blade speed of jet speed for the maximum efficiency of a Pelton wheel?

- [A] $1/4$
- [B] $1/2$
- [C] $3/4$
- [D] 1

Answer: B

10. If the velocity of flow is halved and the diameter of pipe is doubled in a pipe system, the head loss will be?

- [A] Half
- [B] Double
- [C] 4 times
- [D] $1/8$ times

Answer: D

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