

QUIZ NO: 353

TOPIC: FLUID MECHANICS

DATE: 18/10/2020

1. The point in the immersed body through which resultant pressure of the body acts ?

- [A] metacentre
- [B] centre of pressure
- [C] centre of gravity
- [D] none of the above

Answer : B

2. If G , G_1 are the specific gravities of the body and fluid respectively and h is the height of the body, then the depth of immersion is ?

- [A] Gh
- [B] G_1h
- [C] $Gh + G_1h$
- [D] None of these

Answer : A

3. The time of oscillation of a floating body with increase in metacentric height will be ?

- [A] same
- [B] higher
- [C] lower
- [D] lower/higher depending on weight of body

Answer : C

4. Which is defined as the scalar function of space and time such that its negative derivative with respect to any direction will give velocity in that direction?

- [A] Velocity potential function
- [B] Stream function
- [C] Streamline
- [D] Equipotential line

Answer : A

5. Which is defined as the scalar function of space and time such that its negative derivative with respect to any direction will give velocity in that direction?

[A] Velocity potential function

[B] Stream function

[C] Streamline

[D] Equipotential line

Answer : A

6. Line drawn joining the locus of all the particles in a flow that has previously passed through a common point is called ?

[A] pathline

[B] streamline

[C] streakline

[D] streamtube

Answer : C

7. Bernoulli's equation deals with the law of conservation of ?

- [A] mass
- [B] energy
- [C] momentum
- [D] none of these

Answer : B

8. The length of diverging part of a venturimeter is longer than the converging part by ?

- [A] 2-3 times
- [B] 5-6 times
- [C] 3-4 times
- [D] 1-2 times

Answer : C

9. Pitot tube is an instrument used for measuring?

- [A] discharge
- [B] velocity of flow
- [C] rate of flow
- [D] pressure difference

Answer : B

10. What is the shape of Pitot tube?

- [A] T shaped
- [B] L shaped
- [C] P shaped
- [D] S shaped

Answer : B

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