

QUIZ NO: 752

TOPIC: FLUID MECHANICS

DATE: 24/08/2023

1. Pick up the correct statements from the following

The condition for stable equilibrium of a floating body is

- [A] M above G
- [B] M below G
- [C] B above G
- [D] Metacentric height is negative

Answer: A

2. Pick up the incorrect statement about buoyant force

- [A] It always at vertically upwards
- [B] It is equal to weight of the fluid displaced by solid body
- [C] It acts through centre of gravity of displaced volume
- [D] None of the above

Answer: D

3. **B is below G, then the submerged body will be in _____ equilibrium**

- [A] Stable
- [B] Unstable
- [C] Neutral
- [D] None of the above

Answer: B

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. **Flow at critical depth takes place in an open channel when**

- [A] For a given specific energy, discharge is maximum
- [B] For a given discharge, specific energy is minimum
- [C] Discharge is minimum for a given specific force
- [D] Discharge is maximum for a given specific force

Answer: B

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6. Reynolds's number for turbulent flow in open channel is

[A] < 2000

[B] > 2000

[C] $= 4000$

[D] < 500

Answer: B

7. In a steady spatially varied flow in a prismatic open channel, the

[A] Depth does not change along the length

[B] Discharge is constant along the length

[C] Discharge varies along the length

[D] Discharge varies with time

Answer: C

8. While defining Froude's number applicable to channels of any shape , the length parameter used is:

[A] Hydraulic radius

[B] Wetted perimeter

[C] Hydraulic diameter

[D] Depth of flow

Answer: C

9. The dimension of hydraulic mean depth is _____

- [A] L
- [B] M
- [C] T
- [D] L²

Answer: A

10. A rectangular channel has a width of 5m and bed slope of 0.001. for a uniform flow of depth 2m, the velocity is 2m/s. the manning's roughness coefficient is:

- [A] 0.050
- [B] 0.002
- [C] 0.033
- [D] 0.017

Answer: D

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