

## QUIZ NO: 681

### TOPIC: FLUID MECHANICS

DATE: 21/01/2023

1. Consider the following parameters related to fluid flow.

1. Vorticity

2. Velocity potential

3. Stream function

Which of these parameters exist both in rotational and irrotational flow

[A] 1 and 2

[B] 2 and 3

[C] 1 and 3

[D] 1, 2 and 3

**Answer: C**

2. For a laminar flow, the formula for coefficient of friction is

[A]  $16/Re$

[B]  $0.0316/Re$

[C]  $64/Re$

[D]  $0.079/Re$

**Answer: A**

**3. Pick up the correct statements from the following?**

**The condition for neutral equilibrium of a floating body is**

- |                     |                                      |
|---------------------|--------------------------------------|
| <b>1. M at G</b>    | <b>2. M below G</b>                  |
| <b>3. B above G</b> | <b>4. Metacentric height is zero</b> |

- [A] 1 and 2 are correct  
[B] 1 and 4 are correct  
[C] 3 and 4 are correct  
[D] 1, 2, 3 and 4 are correct

**Answer: B**

**4. What is the nearest height of an oil column of specific gravity 0.85m equivalent to a gauge pressure of 17.4 KPa?**

- [A] 2.1 m  
[B] 2.6 m  
[C] 2.9 m  
[D] 2.3 m

**Answer: A**

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5. Hydraulic jump is a \_\_\_\_\_ flow

- [A] Uniform
- [B] Rapidly varied
- [C] Gradually varied
- [D] Unsteady

**Answer: B**

6. Reciprocal of Euler's number is known as \_\_\_\_\_

- [A] Reynolds
- [B] Froude's
- [C] Webber
- [D] Newton's

**Answer: D**

7. A surge tank is provided to protect the

- [A] Turbine runner
- [B] Spiral casing
- [C] Draft tube
- [D] Penstock

**Answer: D**

**8. What type of fluid is Quick sand?**

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

**Answer: D**

**9. Shear stress develops on a fluid element, if**

- [A] the fluid is at rest
- [B] the fluid container is subject to uniform linear acceleration
- [C] the fluid is inviscid
- [D] the fluid is viscous and the flow is non-uniform

**Answer: D**

**10.A U- tube manometer can measure**

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

**Answer: D**

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