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CENTRE FOR CIVIL ENGG. COMPETITIVE EXAMS

TRIVANDRUM KOLLAM ERANAKULAM

94 97 49 84 15 / 16 / 17

Quiz #203

18/06/2020

**Topic: FLUID MECHANICS**

1. In which of the following unit kinematic viscosity of fluid is measured?

- A. m/sec
- B. m/sec<sup>2</sup>
- C. dyne
- D. stokes

**Answer: D**

2. The property of fluid by virtue of which it offers resistance to shear is called?

- A. Surface tension
- B. Adhesion
- C. Cohesion
- D. Viscosity

**Answer: D**



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3. Which of the following fluids can be classified as non-Newtonian?

- A. Kerosene oil and Diesel oil
- B. Human blood and Toothpaste
- C. Diesel oil and Water
- D. Kerosene and Water

**Answer: B**

4. The location of the centre of pressure over a surface immersed in a liquid is?

- A. always above the centroid
- B. will be at the centroid
- C. will be below the centroid
- D. for higher densities it will be above the centroid and for lower densities it will be below the centroid

**Answer: C**

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5. The rate of increase of velocity with respect to change in the position of fluid particle in a flow field is called as ?

- [A] local acceleration
- [B] temporal acceleration
- [C] convective acceleration
- [D] all of the above

**Answer: C**

6. The actual path followed by a fluid particle as it moves during a period of time, is called as ?

- [A] path line
- [B] streak line
- [C] filament line
- [D] stream line

**Answer: A**

7. Continuity equation is based on law of conservation of?

- [A] mass
- [B] energy



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[C] both a and c

[D] none of the above

**Answer: A**

8. If stream function exists for a flow, then the flow can be ?

[A] Rotational or irrotational

[B] Rotational

[C] Irrotational

[D] Cannot be determined

**Answer: A**

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

[A] mass

[B] energy

[C] momentum

[D] none of these

**Answer: B**

10. Pitot tube is an instrument used for measuring?



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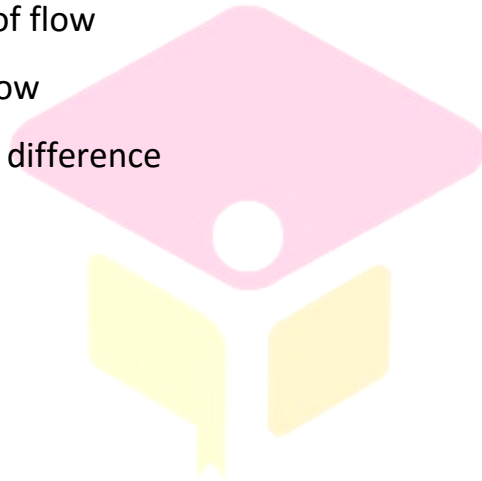
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- [A] discharge
- [B] velocity of flow
- [C] rate of flow
- [D] pressure difference

**Answer: B**



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