

## QUIZ NO: 544

### TOPIC: FLUID MECHANICS

**DATE: 20/01/2022**

1. The velocity of flow at which the flow changes from laminar to turbulent is known as

- [A] Critical velocity
- [B] Transition Velocity
- [C] Reynolds velocity
- [D] Substantial velocity

**Answer: A**

2. The velocity distribution at any section of a pipe for steady laminar flow is

- [A] Linear
- [B] Exponential
- [C] Parabolic
- [D] Constant

**Answer: C**

**3. The most appropriate governing equations of Ideal fluid flow are**

- [A] Euler's equation
- [B] Navier - stoke's equation
- [C] Reynolds equation
- [D] Hagen Poiseuille equation

**Answer: A**

**4. The line joining piezometric head at various points in a flow is known as**

- [A] Total energy line
- [B] Hydraulic gradient line
- [C] Datum
- [D] None of these

**Answer: B**

**5. The velocity potential exist only for**

- [A] Rotational flow
- [B] Unsteady flow
- [C] Steady flow
- [D] Irrotational flow

**Answer: D**

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**6. The quantity of fluid flowing per unit time is constant in**

- [A] Uniform flow
- [B] Steady flow
- [C] Laminar flow
- [D] Unsteady flow

**Answer: B**

**7. The height of water column corresponding to a pressure equivalent of 75 cm of mercury column is**

- [A] 1000 cm
- [B] 1760 cm
- [C] 1040 cm
- [D] 1020 cm

**Answer: D**

**8. Intensity of pressure due to water is proportional to**

- [A] Height of water
- [B] Temperature
- [C] Velocity
- [D] Atmospheric pressure

**Answer: A**

9. The amount of moisture present in the air expressed as mass per unit volume is

- [A] Absolute humidity
- [B] Saturation rate
- [C] Vapour pressure
- [D] All the above

**Answer: A**

10. Water rises up to a height  $h$  in a capillary tube of certain diameter. This capillary tube is replaced by a similar tube of half the diameter. Now water will rise to a height of:

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

**Answer: C**

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