

QUIZ NO: 726

TOPIC: FLUID MECHANICS

DATE: 10/06/2023

1. When the depth of flow changes gradually over a length of the channel, then the flow will be termed as

- [A] Rapidly varied flow
- [B] Critical flow
- [C] Gradually varied flow
- [D] Uniform flow

Answer: C

2. Steady flow in an open channel, exists when

- [A] Flow is uniform
- [B] Channel is frictionless
- [C] Depth does not change with time
- [D] Channel bed is not curved

Answer: C

3. Viscosity of oil changes with

- [A] Temperature
- [B] Speed
- [C] Weight
- [D] Capillarity

Answer: A

4. A triangular section is hydraulically efficient when the vertex angle is _____ degree

- [A] 45
- [B] 60
- [C] 90
- [D] 30

Answer: C

5. 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

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6. If, for a fluid in motion, pressure at a point is same in all directions, then the fluid is

- [A] A real fluid
- [B] A Newtonian fluid
- [C] An ideal Fluid
- [D] A Non-Newtonian fluid

Answer: C

7. On an immersed body in a flowing fluid, the lift force is

- [A] Due to buoyant force
- [B] Always in the opposite direction to gravity
- [C] Due to wake phenomenon
- [D] The dynamic fluid force component normal to approach velocity

Answer: A

8. 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

9. The dimensions of a pressure gradient in a fluid flow are

[A] $ML^{-1}T^2$

[B] $ML^{-3}T^2$

[C] $ML^{-2}T^{-2}$

[D] $ML^{-1}T^2$

Answer: C

10. An inert tracer is injected continuously from a point in an unsteady flow field. The locus of locations of all the tracer particles at an instance of time represents

[A] Stream line

[B] Path line

[C] Steam tube

[D] Streak line

Answer: D

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