

QUIZ NO: 738

TOPIC: FLUID MECHANICS

DATE: 20/07/2023

1. The shear stress- velocity gradient curve is linear for _____ fluids:

- [A] Newtonian Fluids
- [B] Dilatent fluids
- [C] Pseudo plastic
- [D] Non-Newtonian fluids

Answer: A

2. Which one of the following sets of conditions clearly apply to an ideal fluid?

- [A] Viscous and compressible
- [B] Non-viscous and incompressible
- [C] Non-viscous and compressible
- [D] Viscous and incompressible

Answer: B

3. The standard atmospheric pressure is 762 mm of Hg. At a specific location, the barometer reads 680 mm of Hg. At this place, what does at absolute pressure of 380 mm of Hg correspond to:

- [A] 300 mm of Hg vacuum
- [B] 382 of Hg vacuum
- [C] 62 mm of Hg vacuum
- [D] 62 mm of Hg gauge

Answer: A

4. Which one of the statements is correct for a forced vortex?

- [A] Turns in an opposite direction to a free vortex
- [B] Always occurs in conjunction with a free vortex
- [C] Has the linear velocity directly proportional to the radius
- [D] Has the linear velocity inversely proportional to the radius

Answer: C

5. 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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6. In a venturimeter, the angle of the diverging section is more than that of converging section

- [A] True
- [B] False
- [C] Insufficient data
- [D] Can't say

Answer: B

7. How is the velocity coefficient C_v , the discharge coefficient C_d , and the contraction coefficient C_c of an orifice related?

- [A] $C_v = C_c.C_d$
- [B] $C_c = C_v.C_d$
- [C] $C_d = C_c.C_v$
- [D] $C_c.C_v.C_d = 1$

Answer: C

8. The velocity of a water stream is being measured by a L-shaped Pilot tube and the reading is 20 cm. Then what is the approximate value of velocity:

- [A] 19.6 m/s
- [B] 2.0 m/s
- [C] 9.8 m/s
- [D] 20 cm/s

Answer: B

9. At stagnation point, velocity of flow is:

- [A] Zero
- [B] Maximum
- [C] Minimum
- [D] Unity

Answer: A

10. A water supply pipeline changes its alignment through a bend. When the flow in the pipeline is increased by operating a valve, the flow in the bend is classified as:

- [A] steady and uniform
- [B] unsteady and uniform
- [C] steady and non uniform
- [D] unsteady and non uniform

Answer: D

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