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Quiz
ANSWER KEY

QUIZ NO: 841

TOPIC: FLUID MECHANICS

DATE: 04/07/2024

1. **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] 382mm of Hg vacuum

   [C] 62 mm of Hg vacuum

   [D] 62 mm of Hg gauge

   Answer: A

2. **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

3. The value of local acceleration with u = 4t^2 +1t+15 at t =2s is given by?

[A] 13

[B] 15

[C] 17

[D] 19

Answer: C

4. 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

5. At stagnation point, velocity of flow is:

[A] Zero

[B] Maximum

[C] Minimum

[D] Unity

Answer: A

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6. A horizontal pipe carries water has velocities 2m/s and 1m/s at the left and right ends. Find the pressure head difference?

[A] g

[B] 1/g

[C] 1.5/g

[D] 1.5g

Answer: C

7. What is the value of atmospheric pressure at MSL under standard conditions?

[A] 760mm of mercury

[B] 10.33 m of water

[C] 1 bar

[D] All the above

Answer: D

8. A body floating in a liquid is in stable equilibrium if:

[A] M below G

[B] M above G

[C] M at G

[D] G below B

Answer: B

9. The velocity of a water stream is being measured by a L-shaped Pilot tube and the reading is 20cm. 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

10. Pick up the incorrect statement about buoyant force

[A] It always at vertically upwards

[B] It is equal to weight of the fluid displaced by solid body

[C] It acts through centre of gravity of displaced volume

[D] None of the above

Answer: D

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