

AP Physics Multiple Choice Practice – Fluid Mechanics

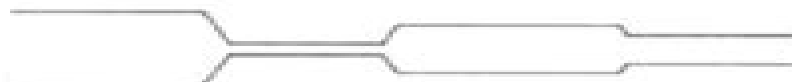
1. A cork has weight mg and density 25% of water density. A string is tied around the cork and attached to the bottom of a water-filled container. The cork is totally immersed. Express in terms of the cork weight mg , the tension in the string

A) 0
B) mg
C) $2mg$
D) $3mg$
E) $4mg$



2. Which of the following is the best statement of Pascal's Law?
A) pressure on a confined liquid is transmitted equally in all directions
B) a numerical arrangement where each number is the sum of the two numbers above
C) two electrons cannot occupy the same quantum state at the same time
D) the volume of a gas is directly related to its temperature
E) the farther away a galaxy is the faster it is receding
3. When submerged under water, the apparent mass of one cubic meter of pure gold is 18300 kg. What would be its mass in air?
A) 16300 kg B) 17300 kg C) 18300 kg D) 19300 kg E) 20300 kg
4. An ideal fluid flows through a long horizontal circular pipe. In one region of the pipe, it has radius R . The pipe then widens to radius $2R$. What is the ratio of the fluids speed in the region of radius R to the speed of the fluid in region with radius $2R$?
A) $\frac{1}{4}$ B) $\frac{1}{2}$ C) 1 D) 2 E) 4

5. A fluid is forced through a pipe of changing cross section as shown. In which section would the pressure of the fluid be a minimum



- A) I B) II C) III D) IV E) all section have the same pressure.
6. Three fishing bobbers all float on top of water. They have the following relationships:
-A,B: same mass, same density, different shapes
-B,C: same size, same shape,
 mass & density $C < \text{mass \& density } B$
Three identical weights are tied to each bob, and each is pulled completely beneath the water. Which bob will displace the greatest amount of water?
A) A
B) B
C) C
D) A and B
E) All displace the same amount of water.
7. A hydraulic press allows large masses to be lifted with small forces as a result of which principle?
A) Pascal's
B) Bernoulli's
C) Archimedes'
D) Huygens'
E) Newton's

8 Ap Physics B Multiple Choice

Hasan Fakhruddin



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