

Name : _____ Grade/Year : _____ Subject : Physics

School's Name : _____ Date : _____ Marks obtained :

Choose the correct answer from 4 options and circle the correct one.

1. The pressure acting on an object is equal to
 - A. Force divided by the area
 - B. Force times area
 - C. Force times lever arm length
 - D. Force plus area
2. The weight of a liquid depends mainly upon
 - A. depth
 - B. density
 - C. pressure
 - D. energy
3. The S.I. unit of pressure is the
 - A. newton meter
 - B. newton
 - C. pascal
 - D. newton/meter
4. How much does a 1-litre bottle of water weigh?
 - A. 1.0N
 - B. 9.0N
 - C. 10.0N
 - D. 98.0 N
5. The product of density, gravity and depth measure the pressure of
 - A. Liquid
 - B. solid
 - C. car
 - D. vacuum cleaner
6. Different cross-sectional areas and forces acting on the pistons in a hydraulic system is used as
 - A. Upthrust
 - B. Force multiplier
 - C. pressure multiplier
 - D. Area multiplier
7. Two sides of 2 cm and 5 cm of a rectangular block exert a force of 80 N on the ground. What is the pressure acting on the ground?
 - A. 100 N/cm²
 - B. 8 N/cm²
 - C. 8 Pa
 - D. 800 N/cm²
8. What is the length of a rectangular block having a width of 0.25m that exerts a pressure of 150 Pa and a force of 18.75 N?
 - A. 5.0m
 - B. 0.05m
 - C. 0.5m
 - D. 150m
9. How does pressure distribute in a liquid?
 - A. Uniformly in all directions.
 - B. Acts at the bottom only.
 - C. zero in directions.
 - D. Non-uniformly in all directions.