

DELHI PUBLIC SCHOOL, JAMMU

SESSION 2025-26

ASSIGNMENT II

CLASS : VIII

SUBJECT: SCIENCE

TOPIC : FORCE AND PRESSURE

Q1. Which force causes the deflection of the needle in a magnetic compass?

- a) muscular force. b) magnetic force c) gravitational force d) electrostatic force

Q2. Assertion (A): Liquids exert pressure on the walls of the container.

Reason (R): Pressure exerted by a liquid increases with depth.

- a) Both A and R are true, and R is the correct explanation of A.
b) Both A and R are true, but R is not the correct explanation of A.
c) A is true, but R is false.
d) A is false, but R is true.

Q3. Which of these is an example of a contact force?

- (a) A guava falling from a tree (c) A magnet attracting iron nail
(b) A plastic comb attracting small pieces of hair (d) A boat moving on water by action of wind on its sail

Q4. Imagine you have two identical blocks. You place one block flat on a table and the other block standing on one of its edges. Which block exerts more pressure on the table?

- (a) The block lying flat. (c) The block standing on its edge.
(b) Both blocks exert the same pressure. (d) It depends on the material of the blocks.

Q5. Give one application of liquid pressure with diagram.

Q6. A brick is 32 cm long, 10 cm wide and 10 cm thick. It weighs 16 N and is lying on the ground. Find the pressure exerted by the brick on the ground.

Q7. Observe the given diagram below and answer the questions.



(i) This boy is drinking juice because _____ acts on the surface of juice.

- (a) Liquid pressure (b) atmospheric pressure (c) pressure (d) none of these

(ii) Barometer is an instrument used to measure _____.

- (a) Atmospheric pressure (b) liquid Pressure (c) both (a) and (c) (d) none of these

(iii) Describe how changes in atmospheric pressure impacts human body?

Q8. Define: (a) magnetic force (b) electrostatic force (c) gravitational force.