

CHAPTER-9 | Gravitation

QUIZ
PART-04

1. What is the force applied normal to a surface?

- A. Thrust
- B. Pressure
- C. Force
- D. Tension (A)

Explanation : Thrust is the force applied normal to the surface.

2. SI unit of thrust?

- A. Newton
- B. Pascal
- C. Joule
- D. Meter (A)

Explanation : The SI unit of thrust is Newton (N).

3. Pressure is inversely proportional to?

- A. Area
- B. Force
- C. Mass
- D. Volume (A)

Explanation : Pressure decreases with increasing area.

4. SI unit of pressure?

- A. Newton
- B. Pascal
- C. Meter
- D. Joule (B)

Explanation : Pressure is measured in Pascal (Pa).

5. Which exerts the same thrust on a surface?

- A. Standing boy
- B. Lying boy
- C. Sitting boy
- D. Sleeping boy (B)

Explanation : A lying down boy exerts the same thrust as a standing boy.

6. Which affects pressure?

- A. Temperature
- B. Area
- C. Time
- D. Speed (B)

Explanation : Pressure is affected by the area.

7. What happens when area is reduced?

- A. Pressure increases
- B. Pressure decreases
- C. Pressure remains the same
- D. Pressure becomes zero (A)

Explanation : Reducing area increases pressure.

8. What do fluids do?

- A. Don't exert pressure
- B. Are solid
- C. Exert pressure in all directions
- D. Have no weight (C)

Explanation : Fluids exert pressure in all directions in confined spaces.

9. Pressure in a fluid in a confined space?

- A. Absorbed by fluid
- B. Transmitted undiminished
- C. Acts in one direction
- D. Depends on temperature (B)

Explanation : Pressure in confined fluids is transmitted undiminished.

10. Pressure exerted when lying on the ground?

- A. Increases
- B. Decreases
- C. Remains the same
- D. Becomes zero (B)

Explanation : Lying spreads pressure over a larger area, reducing it.