

CHAPTER-5 | Exploring Force

QUIZ
PART-06

1. Upward force in liquid is called:

- A. Gravity
- B. Friction
- C. Buoyant force
- D. Magnetism (C)

Explanation: Liquid exerts upthrust.

2. If gravity > buoyant force:

- A. Float
- B. Sink
- C. Fly
- D. Melt (B)

Explanation: Heavier force downward sinks object.

3. If gravity = buoyant force:

- A. Sink
- B. Float
- C. Break
- D. Burn (B)

Explanation: Balanced forces cause floating.

4. Buoyant force depends on:

- A. Colour
- B. Density of liquid
- C. Shape only
- D. Temperature only (B)

Explanation: Denser liquid gives more upthrust.

5. Archimedes principle states:

- A. Equal upward force
- B. No force
- C. Double force
- D. Magnetic force (A)

Explanation: Upthrust equals weight of displaced fluid.

6. Pumice floats because it is:

- A. Heavy
- B. Dense
- C. Porous and light
- D. Magnetic (C)

Explanation: Air pockets reduce density.

7. Coin sinks because:

- A. Less dense
- B. More dense
- C. Magnetic
- D. Smooth (B)

Explanation: Greater density sinks.

8. Empty bottle rises due to:

- A. Friction
- B. Buoyant force
- C. Magnet
- D. Heat (B)

Explanation: Water pushes upward.

9. Density affects:

- A. Friction
- B. Floating
- C. Magnetism
- D. Heat (B)

Explanation: Density determines float/sink.

10. Buoyant force acts:

- A. Downward
- B. Upward
- C. Sideways
- D. Circular (B)

Explanation: It opposes gravity.