

Chapter: 3

Q.1 A) Choose the correct alternative and rewrite the sentence (2)

- 1) Pressure exerted by a liquid is due to its
a. mass b. volume c. weight d. area
- 2) If the area of contact is increased, then
a. pressure increases b. pressure decreases
c. pressure remains the same d. none of these

Q.2 B) Solve the following questions. (3)

1) State True or False (1)

- 1) The tendency of an object to remain in its existing state is called its inertia.

2) Find the odd one out (1)

- 1) Pascal, Newton, bar, N/m^2

3) Name the following (1)

Another term for relative density.

Q.2 Solve the following questions. (Any two) (4)

1) Write Short Notes

Atmospheric pressure

2) What are the effects of force on an object?

3) Give scientific reasons

Long flat ski is used for skiing on ice. Explain.

Q.3 Answer the following in detail (Any TWO) (6)

- 1) What is Buoyant force and state the factors on which the buoyant force depends.
- 2) State Archimedes principle and its application in day to day life.
- 3) A plastic bottle is pierced at three different points. The bottle is filled with water.



- i. What is your observation from the above figure?
- ii. What can you conclude from the figure?

iii. On which floor will be the pressure maximum in buildings where the water has to flow from the tank placed on the terrace?

Q.4 Solve the following questions. (Any one)

(5)

- 1) What is Frictional force? How is this force useful in daily life?
- 2) What is Inertia? Explain the types of inertia with an example.

