

# SARALA BIRLA PUBLIC SCHOOL

Birla Knowledge City, Mahilong, Ranchi  
CLASS-VIII (2020-21)

## Sub: Physics Assignment-3

### A. Answer the following questions.

1. Calculate the pressure when a force of 200N is exerted on area of (a)  $10\text{m}^2$  (b)  $5\text{m}^2$
2. What is meant by atmospheric pressure? What is the cause of atmospheric pressure?
3. How does the pressure of liquid depend on its depth? Draw a labeled diagram to show that the pressure of a liquid depends on its depth.
4. Explain why the wall of a dam is thicker near the bottom than at the top.
5. Define frictional force. Why is frictional force said to be contact force?

### B. Fill in the blanks.

- i) Force has magnitude as well as .....
- ii) A force arises due to ..... between two objects.
- iii) Force acting on a unit area is called .....
- iv) The pressure exerted by liquid ..... with depth.
- v) Atmospheric pressure ..... with increasing height.