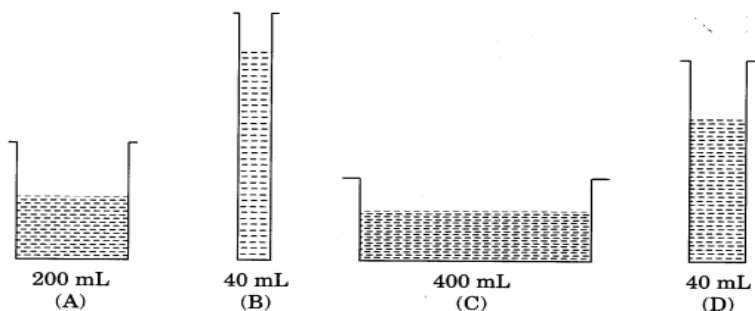


FORCE AND PRESSURE

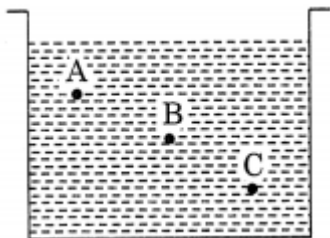
Answer the following:

1. Two rods: A and B, having same weight and equal length have different thickness. Rod A is thinner while Rod B is thicker. They are held vertically on the surface of sand. Which one of them will sink more? Why?
2. Which force is responsible for raising our body hair when we try to take off a Terylene or polyester shirt in the dry weather?
3. Why does a boat come to rest when we stop rowing it?
4. Write any two application of atmospheric pressure in our everyday life.
5. What happens to the springs fixed to the seat of a bicycle when we sit on it?
6. Why do the shape and size of balloon change when filled with air or water?
7. Explain why the walls of a dam are thicker near the bottom than at the top.
8. There is a huge amount of atmospheric pressure on us. But we do not experience its effect. Why?
9. Observe the figures given below carefully.



Volume of water in each vessel is shown above. Arrange them in order of decreasing pressure at the base of each vessel. Explain the reason.

10. A container is filled with water as shown in the given figure. Which of the following statements is correct about pressure of water?



- (a) Pressure at A > Pressure at B > Pressure at C
- (b) Pressure at A = Pressure at B = Pressure at C
- (c) Pressure at A < Pressure at B > Pressure at C
- (d) Pressure at A < Pressure at B < Pressure at C