

Physics

Worksheet 11: 28/09/2020

Class - IX

CHAPTER 5 : STATE OF MATTER AND PRESSURE

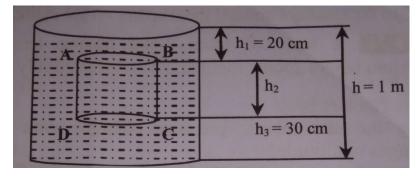
Instructions:

- ✓ Watch the uploaded video class from school's website/You Tube channel. For becoming more clear about the basics, watch more than once, if needed.
- ✓ Contact me in case of any difficulty in understanding.

(Questions given in this worksheet are important questions for all exams)

Creative Questions

- 1. A pot is filled with water and another one is filled with kerosene. First pot's height is 75cm. Water and kerosene have a density of 1000kgm⁻³ and 800kgm⁻³ respectively. There is another object whose volume is 400cm³.
 - a) Determine the pressure working on the bottom surface of the first pot.
 - b) If the object is drowned in 1st and 2nd pot, in which pot buoyancy will be greater than the other?
- 2. Observe the figure carefully and answer the questions. The radius of the cylinder ABCD is 5cm.



- a) Determine the pressure of the liquid at point C in stem.
- b) The weight of displaced liquid by the cylinder is equal to the upward resulting force acting on the cylinder. Prove this in light of the given information of above stem.