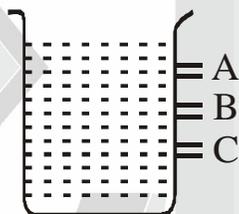


## VIII SCIENCE TEST ON FORCE AND PRESSURE

M.M. : 30

TIME : 1 HR.

1. When a ball is dropped from a height, its speed increases gradually. Name the force which causes this change in speed. 1
2. a. Name force which always opposes motion.  
b. Name force which helps in heart beating. 1
3. What is common in working of devices like drinking straw, syringe, dropper, rubber sucker? 1
4. Give the examples of two contact forces and two non contact forces. 1
5. What do you mean by atmospheric pressure? 1
6. Why is supression much more when a man stands on cushion than when the lies down on it? 2
7. Out of which nozzle the water comes out with greatest pressure and why? 2



8. Why does snow shoes stop you from sinking into snow? 2
9. Where is pressure greater, 10 m below surface of sea or 20 m below sea surface and why? 2
10. Why do mountaineers usually suffer from nose-bleeding at high altitudes? 2
11. When you press a rubber sucker on a smooth surface, it sticks to the surface. Explain why? 2
12. a. Why are the walls of dam thicker near bottom at top?  
b. Why do ink fountain pens start leaking at higher altitudes? 3
13. Suppose you are going in a jet plane and one of the windows breaks due to an accident, what problems do you think you will face? 3
14. Calculate pressure :  
a. when a force of 200N is exerted on an area of 0.02m<sup>2</sup>.  
b. When a force of 500N is exerted on an area of 0.05 m<sup>2</sup>. 3
15. What is force? What are its 5 effects? 4