

Numericals on pressure

- 1. A force of 1200 N acts on the surface of area 10 cm² normally. What would be the thrust and pressure on the surface?**
- 2. The elephant weighs 20,000 N stands on one foot of area 1000 cm². How much pressure would it exert on the ground?**
- 3. The pressure of a gas contained in a cylinder with a movable piston is 300 Pa. The area of the piston is 0.5 m². Calculate the force that is exerted on the piston**
- 4. A book of mass 20 g is placed on a table. Find the thrust exerted by the book on table.**
- 5. A nail has 2cm² at one end and 1/100 cm² At the other end. A force of 1000 gm.wt is applied on the first end. Calculate the pressure acting on the wall.**
- 6. Find the moment of force of 20N about an axis of rotation at distance 0.5m from the force.**
- 7.a spanner of length 10 cm is used to open a nut by applying a minimum force of 5.0 N. Find the moment of force.**