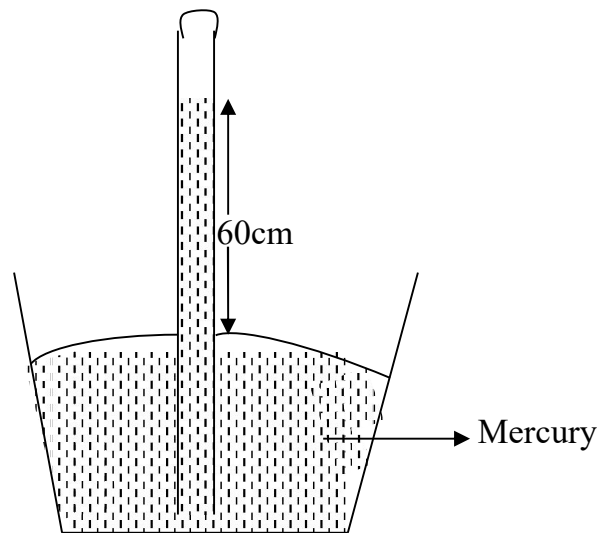


S.2 PHYSICS

1. (a) Define pressure and state its S.I unit. (2mks)
- (b) A brick of mass 3kg measures 0.06m by 0.04m by 0.03m.
- (i) What is the greatest pressure it can exert when placed on a flat surface? (4mks)
- (ii) What is the least pressure it can exert? (3mks)
- (c) (i) Describe an experiment to show that pressure in fluid increases with increase of depth. (5mks)
- (ii) Calculate the pressure at a depth of 12cm in water. (3mks)
(Density of water = 1000kg/m^3 and acceleration due to gravity = 10m/s^2 .)
- (d) Describe an experiment to show existence of atmospheric pressure. (5mks)
- (i)



What is the atmospheric pressure in Pascal shown by the barometer in the diagram. (Density of mercury = 13600kg/m^3) (3mks)

End