

## Previous year JEE question 1

The intermolecular interaction that is dependent on the inverse cube of distance between the molecules is :

[JEE M 2015]

- (a) London force                      (b) hydrogen bond  
(c) ion - ion interaction              (d) ion - dipole interaction

- (b) Hydrogen bond is a type of strong electrostatic dipole-dipole interaction and dependent on the inverse cube of distance between the molecular ion-dipole interaction  $\propto \frac{1}{r^3}$ .