Dr. Riaz Hasan
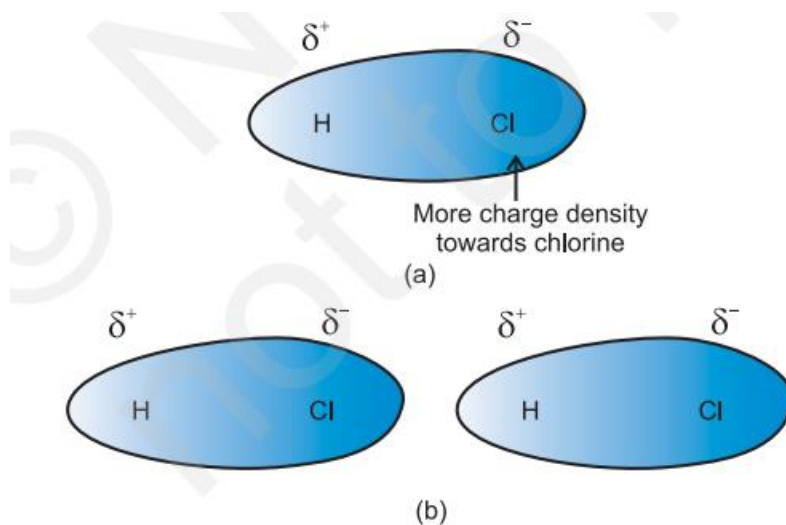*Department of Chemistry*
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Dipole - Dipole Forces

Momentarily Event

(a) Distribution of electron cloud in HCl – a polarmolecule,
(b) Dipole-dipole interaction between two HCl molecules

Dipole-dipole interaction energy between stationary polar molecules (as in solids) is proportional to $1/r^3$ and that between rotating polar molecules is proportional to $1/r^6$, where r is the distance between polar molecules.