



Chemical Bonds

Read the page numbers from **164 to 181 in Part I Science Book** carefully and write the answers for the below given Questions.

- 1) Mention the term, Chemical Bond.
- 2) Name 2 types of such Chemical Bonds.
- 3) What is the ion formed by Metals, by removing electrons?
- 4) What is the ion formed by Nonmetals, by grasping electrons?
- 5) Fill in the banks in below given table.

Element	Electronic configuration	Ionic electronic configuration	Ion symbol
Li	2,1		Li ⁺
Na	2,8,1		
Ca		2,8,8	
F	2,7		F ⁻
Cl	2,8,7		
O		2,8	

- 6) Represent the ionic bond formed in between Na and Cl using dot cross diagram.
- 7) Mention 5 examples for ionic compounds.
- 8) Explain the covalent bond formed in between H and O atoms in water molecule.
- 9) What are the 3 ways that a covalent bond can be represented?
- 10) Use the proper diagrams to represent the following covalent bonds.
 - i. CH₄
 - ii. O₂
 - iii. CO₂
- 11) Explain the way of forming an ionic lattice.
- 12) Define the following terms.

i. Electronegativity	ii. Polarity
iii. Polar Covalent Bonds	iv. Non polar Covalent Bonds.