



Provincial Department of Education – Sabaragamuwa – Week School

Week: 30th May- 5th June, 2021

Subject: Science

Grade -10

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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. CH_4

ii. O_2

iii. CO_2

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.