Chemistry (New Book) - 9th Class Chemistry English Medium Chapter 3 Preparation

Q1. Give one example of an element which exists as a crystalline solid and it has covalent bonds between its toms.

Ans 1: Carbon is an example of element which exists as a crystalline solid and it has covalent bonds between its atoms.

Q2. What is the electronegative character of non -metals.

Ans 1: Non-metals have an affinity for electrons, tend to gain electrons and form negatively charged ions , which is called their electronegative character.

Q3. Define the electropositive character of metals.

Ans 1: The electropositive character of metals refers to their tendency to lose electrons and form positive ions cations.

Q4. What is graphite? Write uses of it.

Ans 1: Graphige consists of a layered structure, made of hexagonal rings of carbon. Since layers are not bonded strngly, they can slip past each other.

Uses of graphite:
i. Graphite is used in pencils, in polishes and to make crucibles.
ii. Graphite electrodes are used in batttery cells and in electric are furnaces to produce steel.

Q5. Differentiate between electropositivity and electronegativity.

Ans 1: Electropositivity:
The element that can lose valance electron easily called electropositivity element and that behavior of an element is known as electropsitivity
Examples are metal like Na, K
Electronegativity:
The element that can gain or accept electron in valance shell easily called electronegative element and that behavior of an element is known as electrogegativity.
Examples are non metals like F, Cl

Q6. Define Chemical bond

Ans 1: A chemical bond is a force of attraction between atoms which holds them together in the form of a molecule or a compound.

Q7. What type of atoms form metallic bond.

Ans 1: Metal atoms form metallic bonds.

Q8. Why do atoms react.

Ans 1: Atoms react to form a chemicla bond and achieve stability by acquring inert gas electronic configuration.

Q9. Why atoms form chemical bonds.

Ans 1: Atoms form bonds beacuse they would like to lower their enegy by completing their duplet or octet. It is natural phenomenon because it increase they stability

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Q10. Give one example of an element which exists as a crystalline solid and it has covalent bonds between its toms.

Ans 1: Diamond is an example of an element that exists as a cryatalline solid and has covalent bonds in its atoms.
