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

Q1. 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.

Q2. Write industrial uses of diamonds.

Ans 1: 1. Diamonds due to their exceptional hardness are highly valued in industries.
2. Diamond tipped glass cutters are used to make clean cuts in glass.
3. Diamond tipped drill bits are used to drill through hard rocks in mining operation.

Q3. What is meant by metallic bond.

Ans 1: A bond formed between metal atoms due to mobile or free electrons is called metallic bond.

Q4. Define electronci configuration

Ans 1: The arrangement of electrons around the nucleus of an atom in shells and sub -shells is called electronic configuration.

Q5. What is meant by bonding electrons.

Ans 1: The valence electrons, which are involved in chemical bonding, are termed as bonding electrons. e.g. H* x H

Q6. What type of elements form covalent bond.

Ans 1: The non -metal elements show tendency of sharing electrons between them and form covalent bond.

Q7. Write few properties fo ionic compounds.

Ans 1: 1. In the solid form, ionic compunds do not conduct electricity.
2. In the molten state, the ions get free and start conductiong electricity.
3. If an external force is applied on the crystal lattice, it breaks easily. It shows that ionic solids are highly brittle.
4. Ionic solids ar ealso generally soluble in water.

Q8. 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.

Q9. What do you know about strong acids.

Ans 1: The acids which are ionize completely in wate are called strong acids. Like hydrogen chloride, Sulphuric acid and nitric acid behave as very strong acids becasue they ionize completely in water.

Q10. What type of elements form vovalent bond.

Ans 1: The non -metal atoms will form covalent bond.
