

## Carbon and its Compounds - Class X - Paper Set 1

- Which element has the ability to form the maximum number of compounds?
  - Oxygen
  - Carbon
  - Hydrogen
  - Nitrogen
- What type of bond is primarily formed in carbon compounds?
  - Ionic bond
  - Metallic bond
  - Covalent bond
  - Hydrogen bond
- The process of burning carbon compounds in the presence of oxygen is called:
  - Sublimation
  - Oxidation
  - Combustion
  - Electrolysis
- Which allotrope of carbon is known to be the hardest substance?
  - Graphite
  - Diamond
  - Fullerene
  - Carbon dioxide
- The simplest hydrocarbon is:
  - Ethane
  - Methane
  - Propane
  - Butane
- The chemical formula of ethanoic acid is:
  - CH<sub>4</sub>
  - C<sub>2</sub>H<sub>5</sub>OH
  - CH<sub>3</sub>COOH
  - C<sub>2</sub>H<sub>2</sub>
- Which compound is used in making soaps and detergents?
  - Ethanol
  - Sodium acetate
  - Ethanoic acid
  - Sodium hydroxide

