JSc. XII

are obtained mostly from petroleum by a process called craking. unsaturated hydrocarbon are of two typs (i) those containing carbon-carbon double bonds (alkenes) and (ii) those containing carbon-carbon triple bonds (alkynes)

1 Alkenes :→ An unsaturated hydrocarbon in which the two carbon atoms are connected by a double bond is called an alkene

The general formula of an alkene is C_nH_{2n} where n is the number of carbon atoms in its one molecule

9SC XII

(ii) Alkynes:→ An unsaturated hydrocarbon in which the two Carbon atoms are Connected by a triple bond is Called an alkyne.

The general formula of alkynes is C_nH_{2n-2} where n is the number of Carbon atom in one molecul of the alkyne.

(i) If an alkyne has 2 Carbon atoms in its molecule then n=2 and its molecular formula will be C_2H_{2x2-2} or C_2H_2

(ii) If an alkyne has 3 Carbon atoms in its molecule then n=3 and its molecular formula will be C_3H_{2x3-2} or C_3H_4