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Urb B.Sc semester III rd. Session 2024 to 2028

Subject - mje 3 (T) organic Chemistry

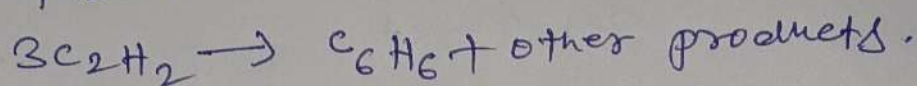
Topic Name: $\Rightarrow$ Chemistry of Hydrocarbons.

In addition to the aliphatic compounds, there was a large number of compounds which were obtained from natural sources. i.e. resins, bedgums, aromatic oils etc. which compound a group of compounds whose structures were unknown but had one thing in common: a pleasant odour. Thus these compounds were arbitrarily classified as aromatic. Careful examination of these compounds showed that they contained a higher percentage carbon content than the corresponding aliphatic hydrocarbons and that most of the simple aromatic compounds contained at least six carbon atoms. Furthermore, it was shown that when aromatic compounds were subjected to various methods of treatment, they often produced benzene or a derivatives of benzene. These are cycle, but their properties are totally different from those of the alicyclic compounds.

Benzene, (C_6H_6) was first isolated faraday from cylinders of compressed illuminating gas obtained from pyrolysis of whale oil. In 1845, benzene was found for coal tar by Hofmann, and this is still a source of benzene and its derivatives.

P.T.O.

page 2: Benzene was first synthesised by Berthelot (1870) by passing acetylene through a red-hot tube.



Benzene may be prepared in the laboratory by many methods, most of which depend on the decarboxylation of aromatic acids, e.g. by heating benzoic or phthalic acid with calcium oxide.

