

Date 30/10/2025.

class U.O sem I st (GNTC) Session 2025 to 2028.

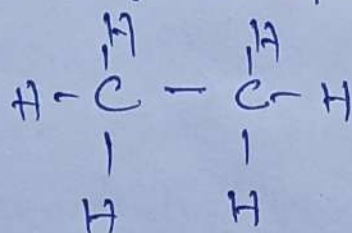
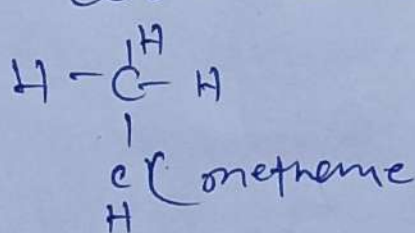
Subject: $\rightarrow$ organic Chemistry.

Topic Name — Alkanes: —

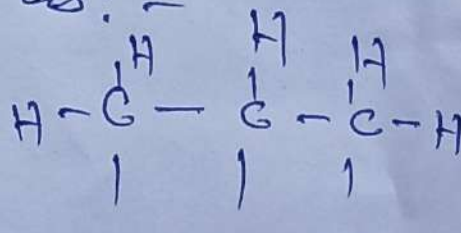
Name of Teacher: $\rightarrow$ Dr. Anant Kumar.
Assistant professor.
S.B College Ara.

(Dept of Chemistry)

Alkanes are the simplest compounds made of Carbon and hydrogen only. They have the General formula C_nH_{2n+2} where $n = 1, 2, 3$ etc. The first three members of this class can be represented as: —



ethane.



propane

The carbon atoms in their molecules are bonded to each other by single covalent bonds. Each carbon is again bonded to enough hydrogen atoms to give maximum valence of 4.

Alkanes contain strong C-C and C-H covalent bonds. Therefore, this class of hydrocarbons are relatively chemically inert. Hence they are sometimes referred to as paraffins.