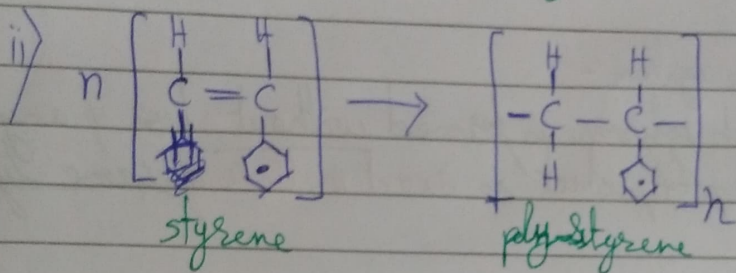
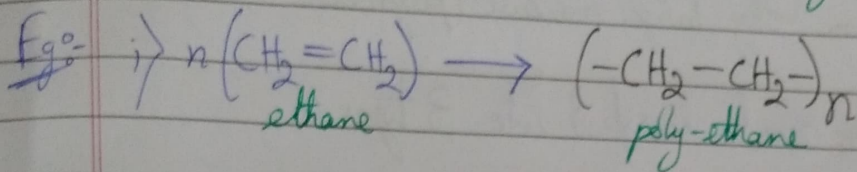


Polymer & Polymerization

Poly \rightarrow many & mero \rightarrow repeating units/parts

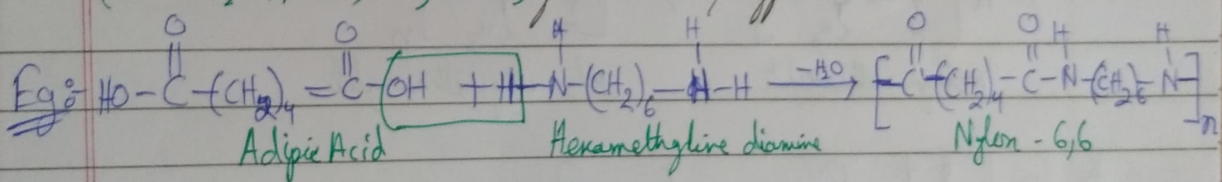
Polymer :- It is a large molecule which is formed by repeated linking of small molecules.

Monomers :- It is the smallest unit of polymer.
Many monomers = Polymer



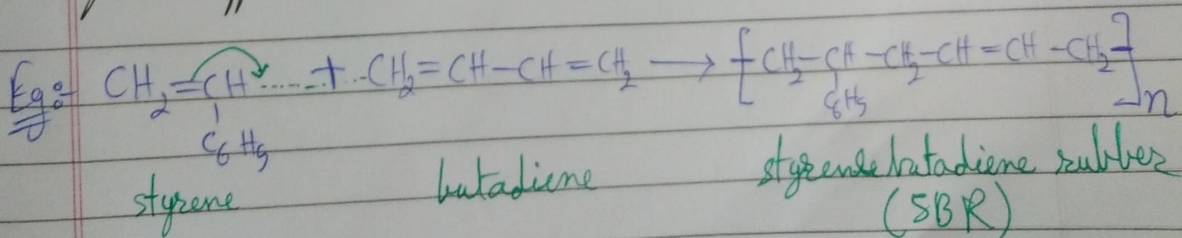
1) Condensation Polymerization:-

The process by which polymer is formed with the loss of small molecules (like H_2O , HCl , NH_3 etc) from same/different monomers.



2) Copolymerization:-

The process by which polymer is formed without loss of any material from different monomers



⑧ Degree of Polymerization :- No. of repeating units in a polymer.

- i) High Polymer :- If repeating units are high
- ii) Oligo Polymer :- If repeating units are low

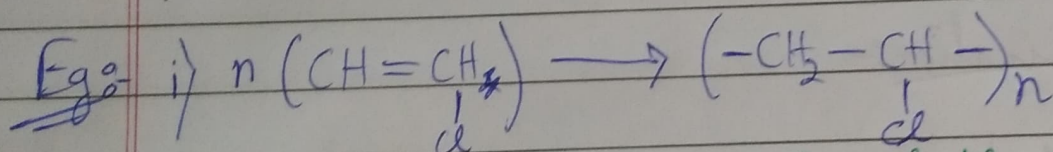
Types of Polymerization :-

✶ Polymerization is process by which simple molecules (monomers) join together to form very large molecule (polymer)

Polymerization can be classified into 3 types :-

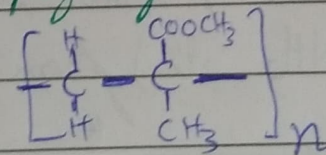
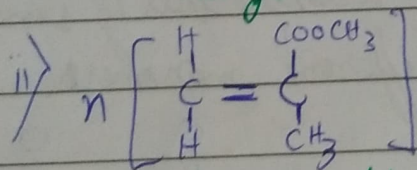
i) Addition Polymerization :-

Process by which polymer is formed without loss of any material and ~~poly~~ product is exact multiple of same types of monomer.



vinyl chloride

polyvinyl chloride



methyl methacrylate

polymethyl methacrylate

2) Condensation Polymerization

3) Co-Polymerization

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