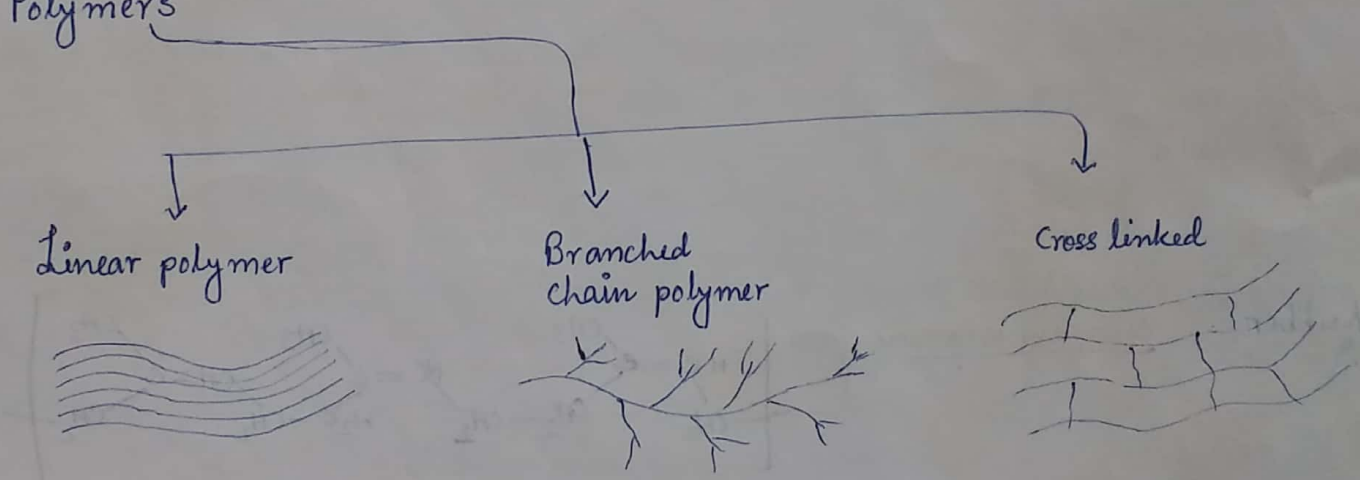
	Monomer	Repeating unit	polymer
1)	$CH_2=CH_2$ Ethylene	$-CH_2-CH_2-$	$+(CH_2-CH_2)+_n$ polyethylene
2)	$CF_2=CF_2$ Tetrafluoroethene	$-CF_2-CF_2-$	$+(CF_2-CF_2)+_n$ Tetrafluoroethylene (Teflon)
3)	Nylon-66	$+NH-(CH_2)_6-NH-C(=O)-(CH_2)_4-C(=O)+$	$+NH-(CH_2)_6-NH-C(=O)-(CH_2)_4-C(=O)+_n$ nylon-66
4)	$CH_2=\overset{CH_3}{\overset{\vert}{C}}-CH=CH_2$ Isoprene	$+CH_2-\overset{CH_3}{\overset{\vert}{C}}=CH-CH_2+$	$+CH_2-\overset{CH_3}{\overset{\vert}{C}}=CH-CH_2+_n$ Rubber

Polymers



Homopolymer

Copolymer

Polymerisation:
(1) Addition polymerisation → free radical → Initiation, Propagation, termination.
→ cations (carbocations)
→ anions (carbanions)
(2) Condensation polymerization