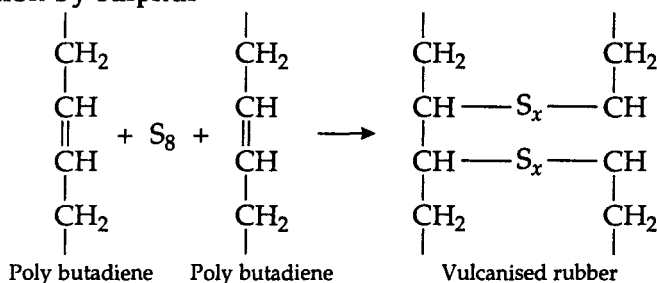


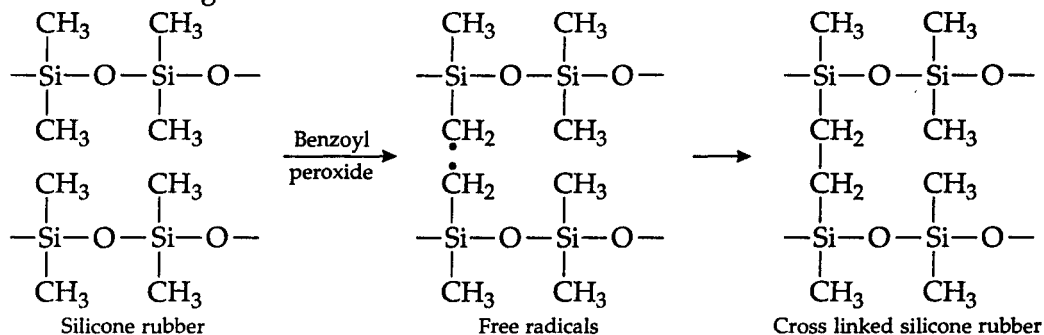
♦ VULCANISATION

Vulcanisation is a process of cross-linking of polymer in natural and synthetic rubber. It was discovered by *Goodyear* in 1839. He used sulphur molecule to crosslink polyisoprene in natural rubber. Vulcanisation process is largely used in rubber technology. This process is involved as follows :

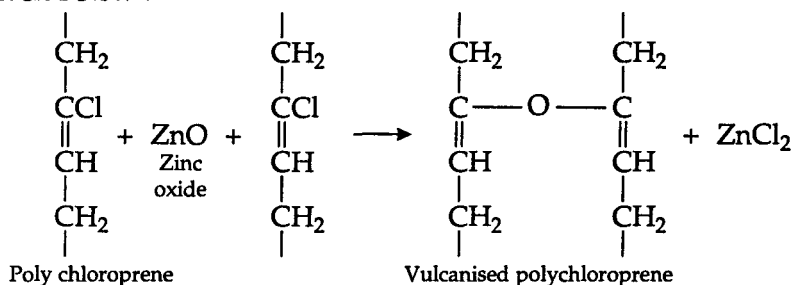
(a) Vulcanisation by sulphur



(b) **Vulcanisation by benzoyl peroxide** : Benzoyl peroxide is used to vulcanised silicon rubber through a free-radical mechanism as :



(c) **Vulcanisation by zinc Oxide** : Zinc oxide involves in vulcanisation of polymer molecule as given below :



(d) **Vulcanisation by S₂Cl₂** : Such type of cross-linking takes place as :

