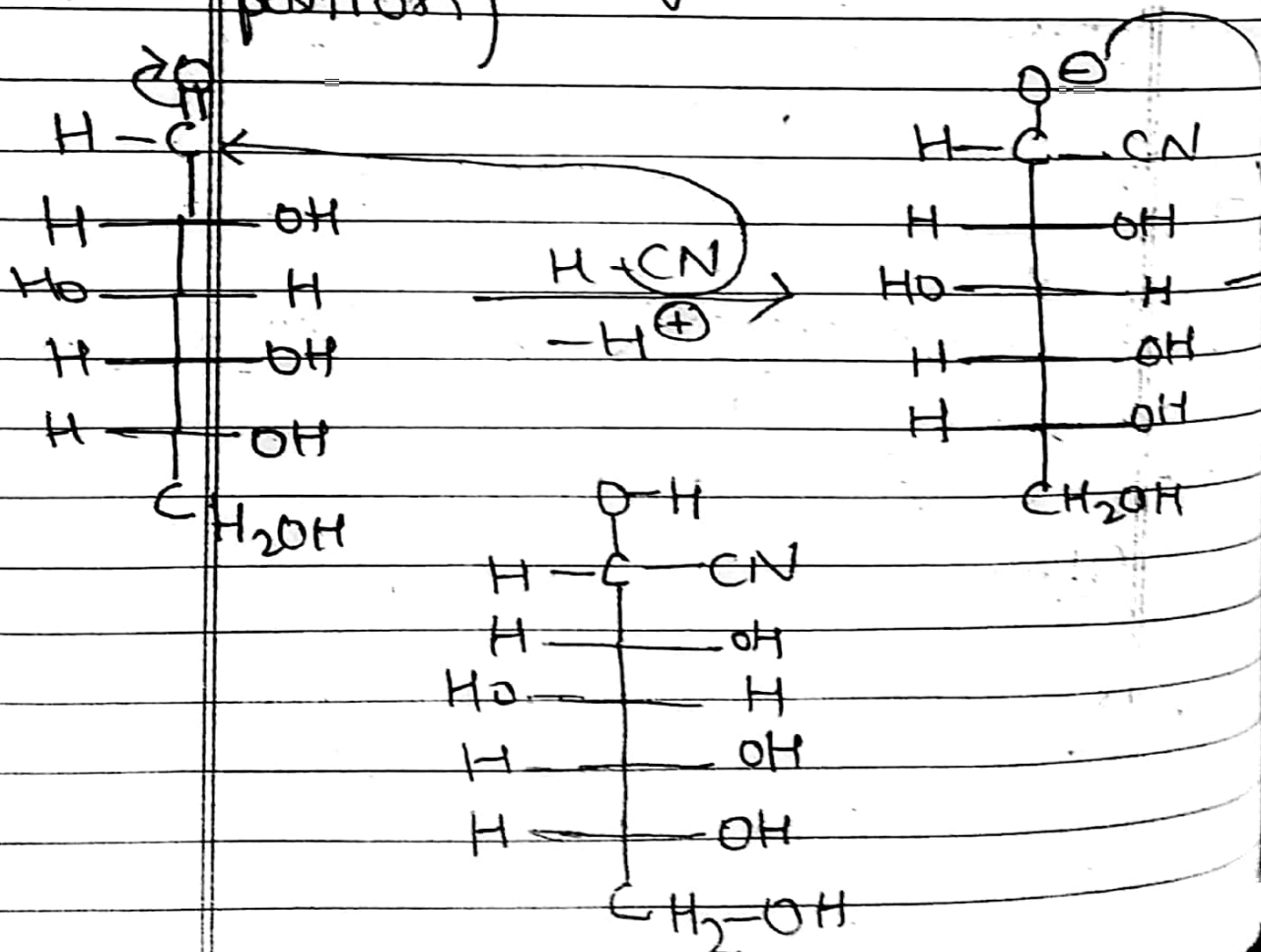


— β -Glucose is more stable than α -glucose because all OH groups are alternate which cause repulsion. Topic $\rightarrow$ Reko glucose.

* Reaction of Glucose :-

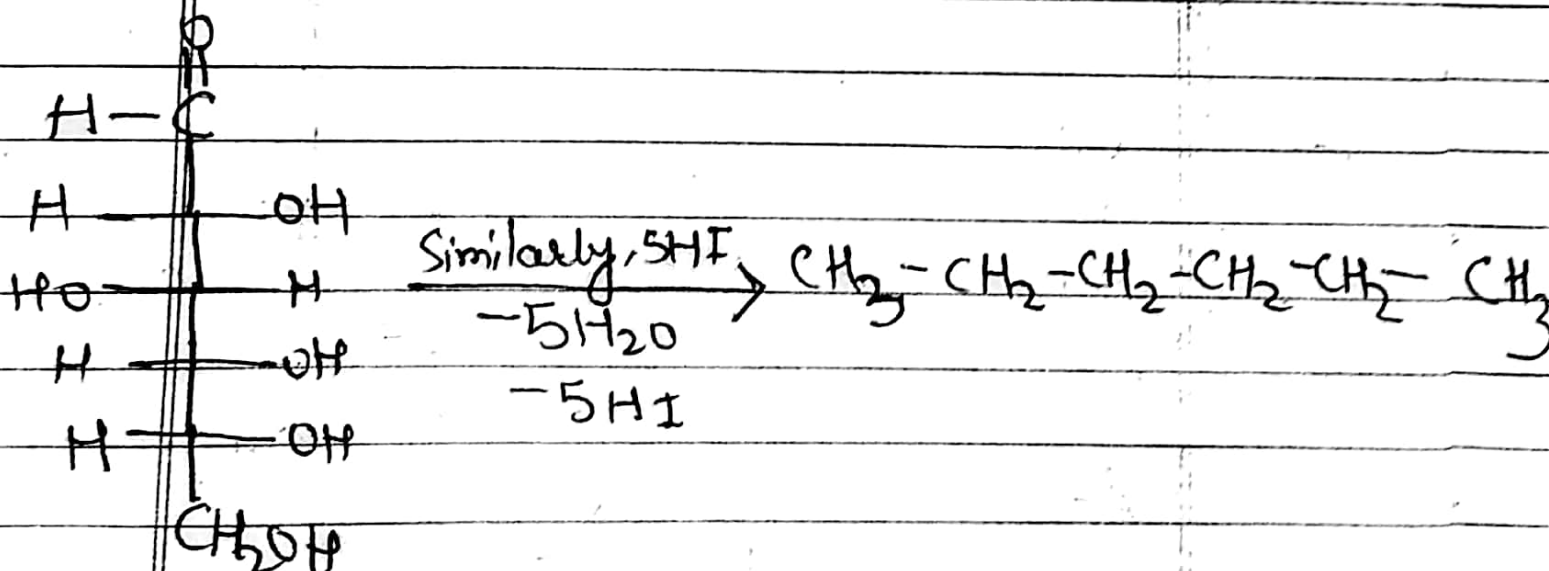
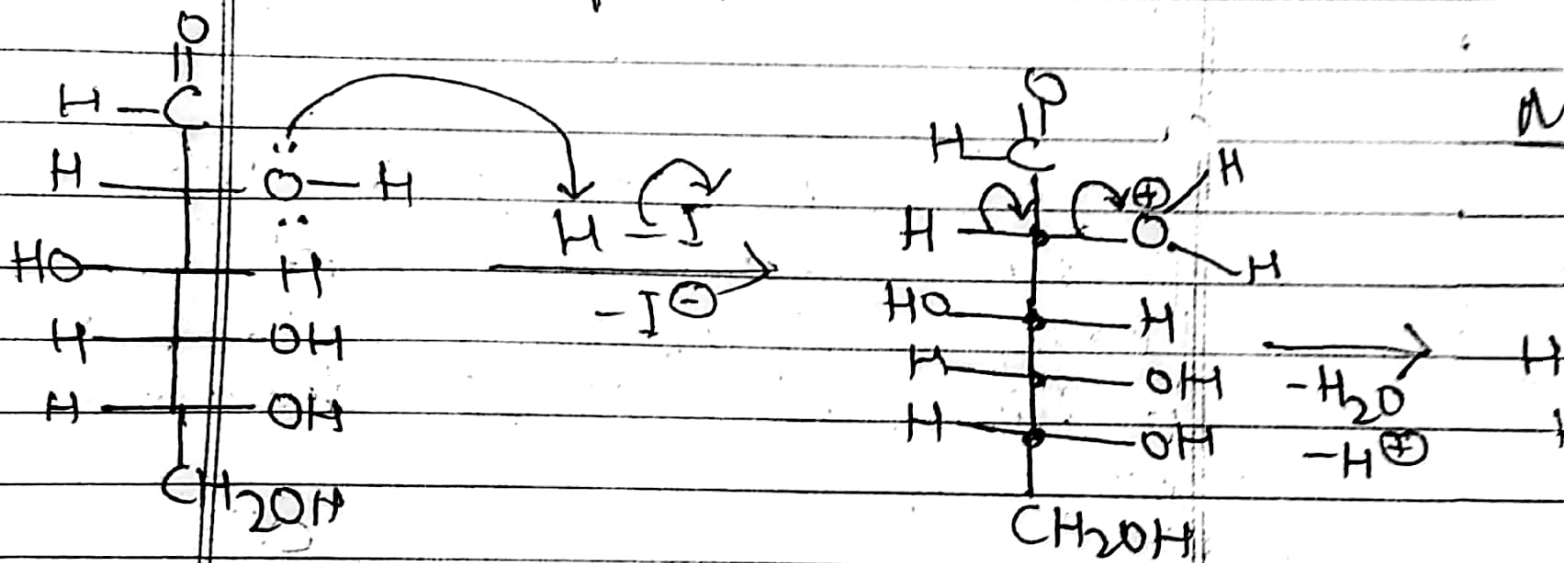
i) With HCN-

When glucose react with HCN to form glucose cyanohydrine. Here, reaction occurs at aldehyde position only (not at alcoholic position)



ii) With HI :-

When glucose react with HI in presence of heat and red phosphorus then form hexane (alkane) here reaction occurs at all position.



(II)

With Ammonia derivatives

When glucose reacts with ammonia derivatives, then form imine product ($C=N$). Here reaction occurs at aldehydic position only in presence of H_2O^+ . Here, fast proton transfer occurs.

Mech:-

