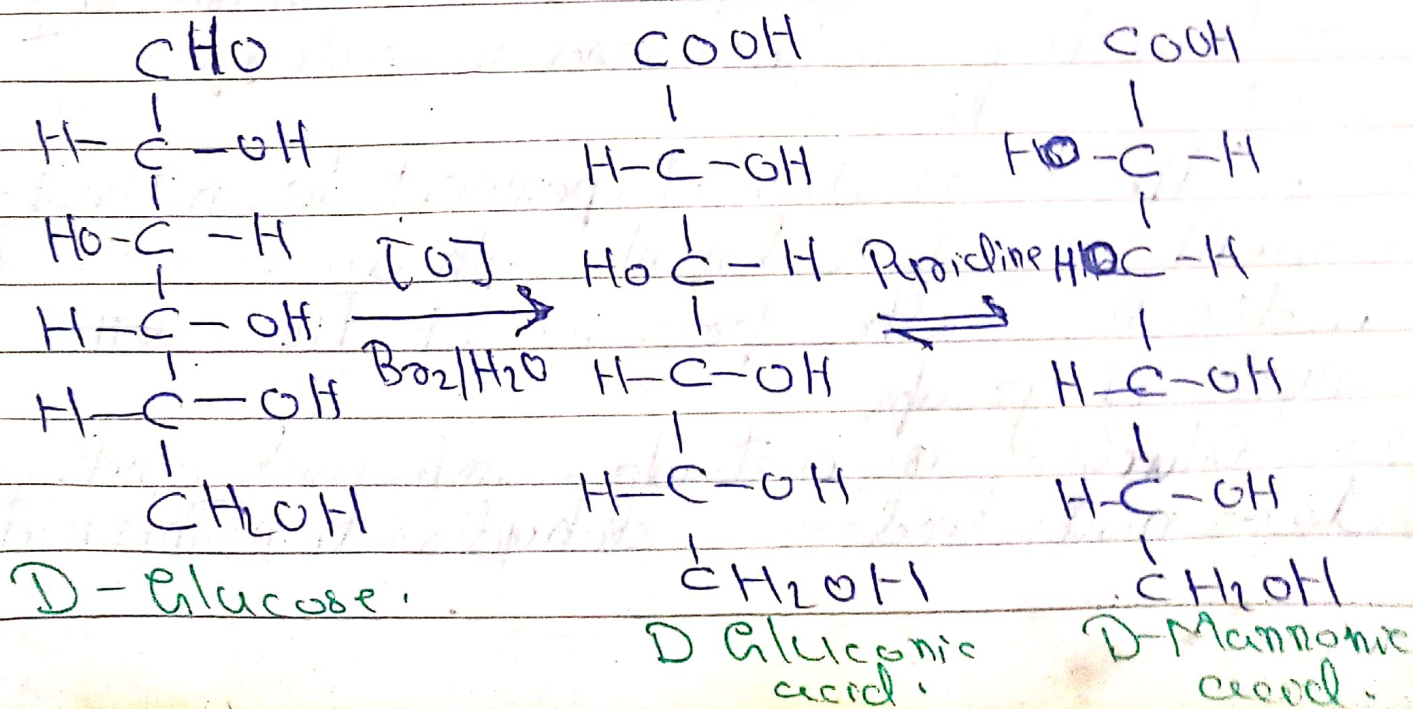
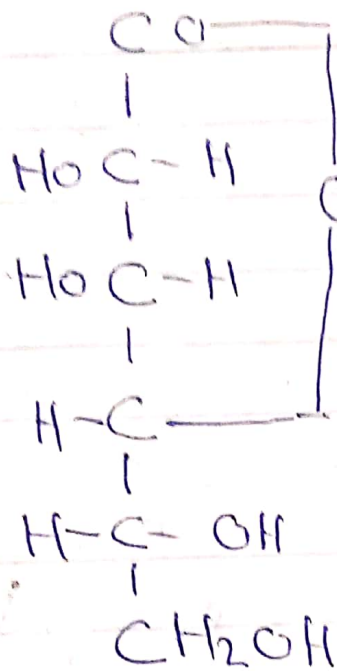
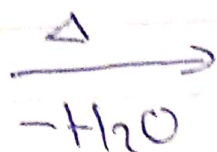


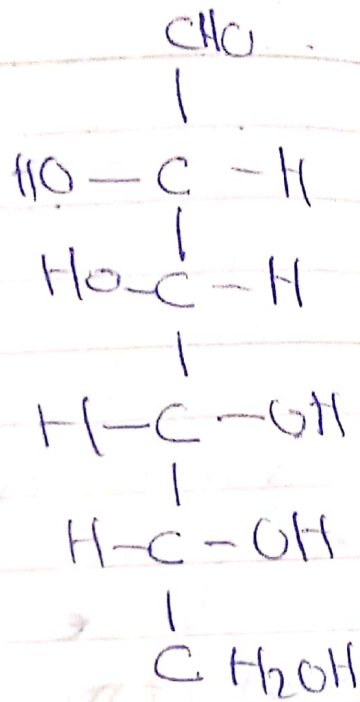
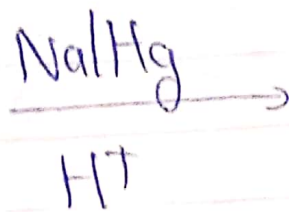
Imp. Epimerisation

A pair of diastereoisomeric aldoses whose configuration at differ only about C-2 are called epimers and inter conversion of such diastereoisomers is called epimerisation. Conversion of glucose into Mannose is a typical example of epimerisation. This transformation can be effected by treating an aldose into corresponding acid by mild oxidation followed with pyridine when an equilibrium is established between the aldonic acid and its epimer. The two acids are then separated. Reduction of the epimeric aldonic acid in the form of its lactone gives the epimeric aldose. The process is illustrated by taking an example of D-Glucose.





γ -D-Mannonolactone



D-Mannose