

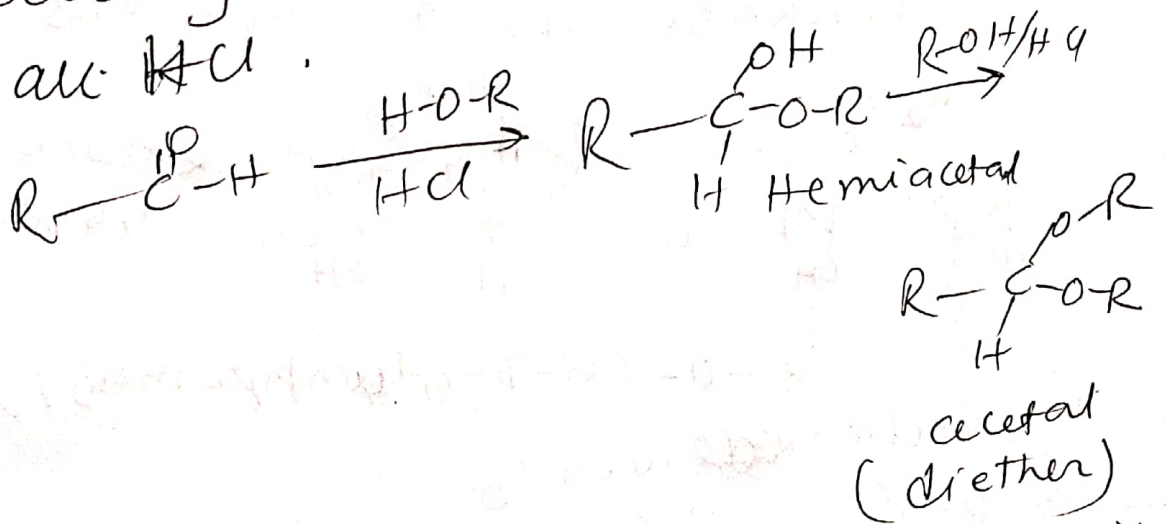
# Carbohydrate

α & β-Glycosidic linkage ⇒ When

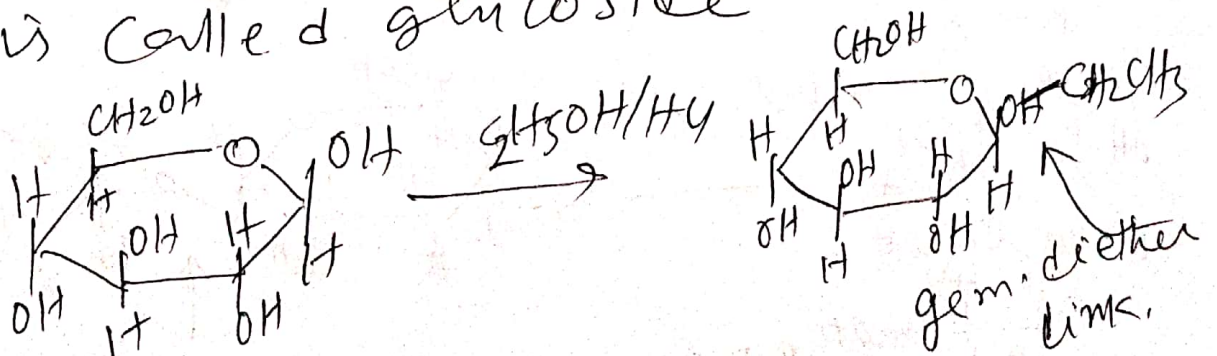
are oligosaccharides or polysaccharides

There is an ether link between two <sup>two or more</sup> hemiacetal forms of monosaccharides.

Actually hemiacetal or acetal are formed when aldehyde is treated with an alcohol.

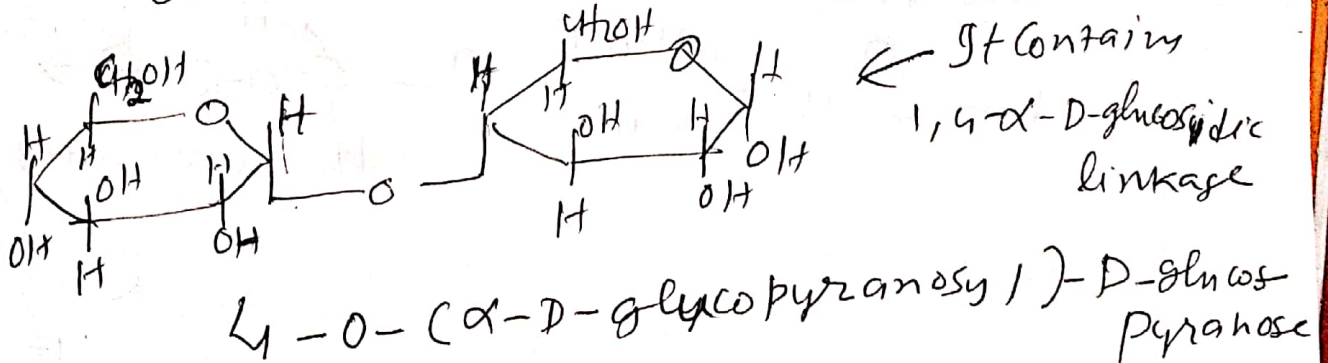


Thus acetal of a monosaccharide is called glycoside



Since monosaccharides are of  $\alpha$  &  $\beta$ -forms in its cyclic structure  
 Hence glycosidic linkage may be  $\alpha$  or  $\beta$  depending upon  
 Stereochemistry of glycosidic carbon  
 atom or anomeric carbon.

— When two  $\alpha$ -D-glucopyranose  
 units form disaccharides or  
 polysaccharides then  
 linkage is named as



— Disaccharides of

—  $\alpha$ -D-glucose &  $\beta$ -D-fructose contains  
 both  $\alpha$  &  $\beta$  - linkage

