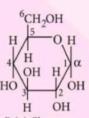
CONCEPT

BIOMOLECULES

Monosaccharides

Simplest carbohydrates which cannot be hydrolysed to smaller molecules.

- ◆ General formula:
 (CH₂O)_n, n = 3 7
 e.g., Glucose, fructose, galactose.
- Source: Fruits, vegetables, etc.
- These provide energy and converted to glycogen for storage.



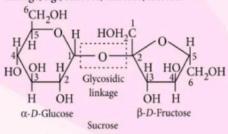
d α-D-(+)-Glucopyranose

These are polyhydroxyaldehydes or polyhydroxyketones or substances which yield such products on hydrolysis. These are also known as *saccharides*. Their general formula is C_x(H₂O)_y where *x* and *y* can be 3, 4, 5 etc.

CARBON

Diasaccharides

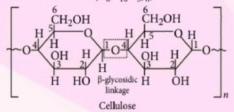
 Two monosaccharides units joined by glycosidic linkage, e.g., sucrose, maltose, lactose.



- Source: Sugarcane, beet root, milk, etc.
- Excess is stored as fats.

Polysaccharides

- Large number of monosaccharides units joined by glycosidic linkage. e.g., starch, cellulose, glycogen.
- ◆ General formula:(C₆H₁₀O₅)_n, n = 100 to 3000



· Expression of genetic information

- Source: Rice, cereal, bread, etc.
- Used in synthesis of DNA.

NUCI

nu

nuclet play

here

Nucleotide

Base + Sugar

Hydro

