Biochemistry: It is the application of chemistry to the study of biological process at cellular and molecular level.
It investigates chemistry of living septem.

Metabolism all chemical reactions occurring in living body (Biomolecules) Abous contain Carlon (3)

· Aurge molecules with covalent bonds Carbohydrates - CARBO, + HYDRATE

Carbohydrates are also called saccarides.

desiral from \_ > "sakchion" means sugar

General formula: Can (the)n [n-rohole no.] Eg: n=6: Co (40)6 = GH206 glucose/fructose ( Carbohy deates are polyhydrong aldehyde / ketone Their complexes give polyhydrony ablehyde/ketone on hydrolynis.

They are hydrated compounds.

R-C-H

R-C-R

Two femalisms

dldehyde (CHO)

ketone (E=O)

groups Exceptions: - (1) Some carbohydrates centain reto nitrogen, phosphorus, sulphur (2) Some do not follow general formula. Eg: Ramnose (4H,2h) (3) Some who follow general formular are got not carbohydrates Eg: formic, acetic & lactic acid In general carbohydrates are white solids, sparingly soluble in organic solvent.

Carbohydrates with low molecular weight are soluble in water.

(sugar)

Classification of Carbohydrates: Honosaccharides:
(Also called cellular fuel

(that alls use for allalar work) · Also called simple sugar Those.

It has I sugar moleculu, here it can't undergo to hydrolysis.

Soluble in organic solvent. Eg- placese of the los Prectose galactose

H2 - H 1 raddyde retore galactose

H4 - O H CH2OH OH OH OH OH OH

OH - C OH H CH2OH H CH2OH H OH

IH OH OH OH OH OH Here, Glucose & Fructore are Functional governo isomers. Glucose & galactore are Stereomers [Fisher projection] Same as glucose but CHO CHO GC & I CH20H] its sterloisoner fly of soHinly C CH39 H CIZOH