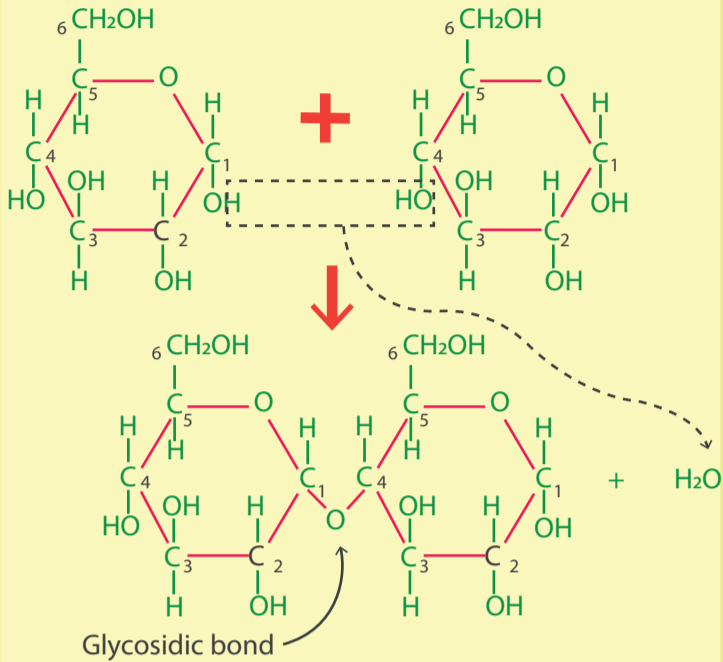


Biomolecules: Molecules produced by the cells

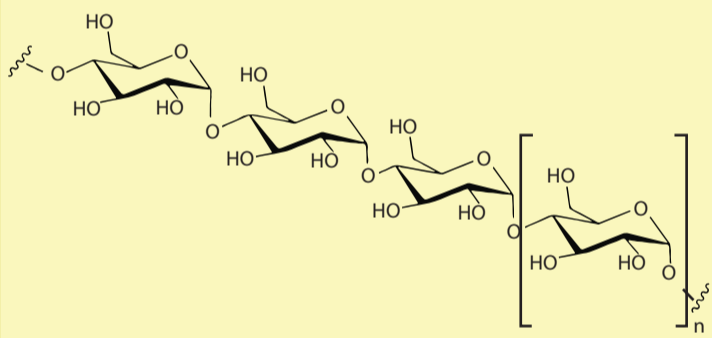
Biomicromolecules

Polysaccharides

- Made up of monosaccharides like glucose, fructose etc.
- Linked by glycosidic bonds



Structure of Polysaccharide



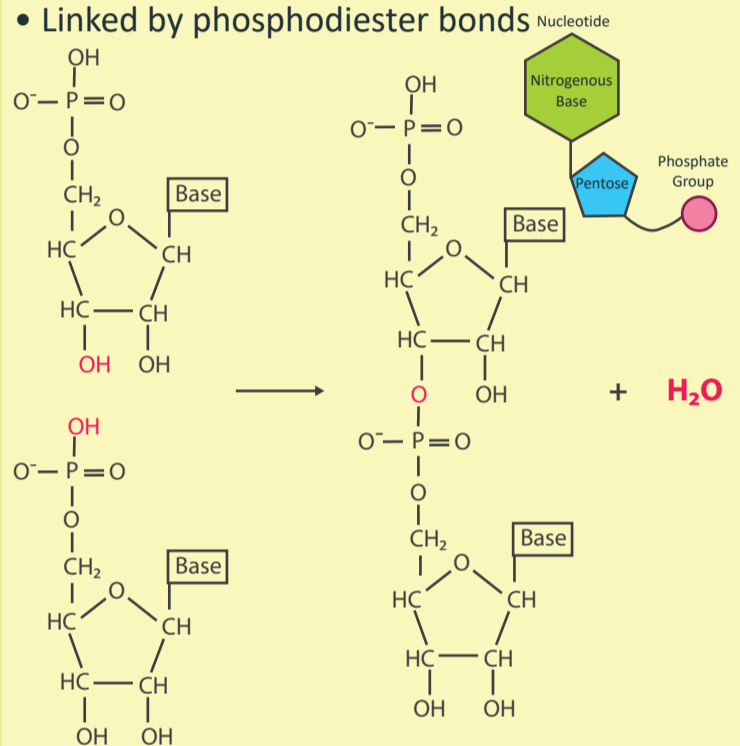
Biomacromolecules

Lipids

- Hydrophobic molecules
- On hydrolysis, lipids yield glycerol and fatty acids
- Lipids are found in fats, oils, hormones and other structures such as the cell membrane, and also stored in the body as adipose tissue
- Lipids function as energy-storage molecules, chemical messengers, and structural components of cells

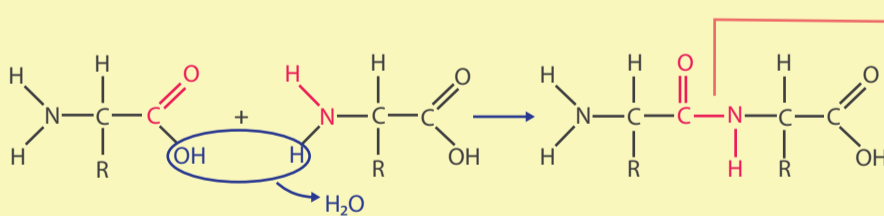
Nucleic Acids

- Made up by smaller units called nucleotides
- Linked by phosphodiester bonds



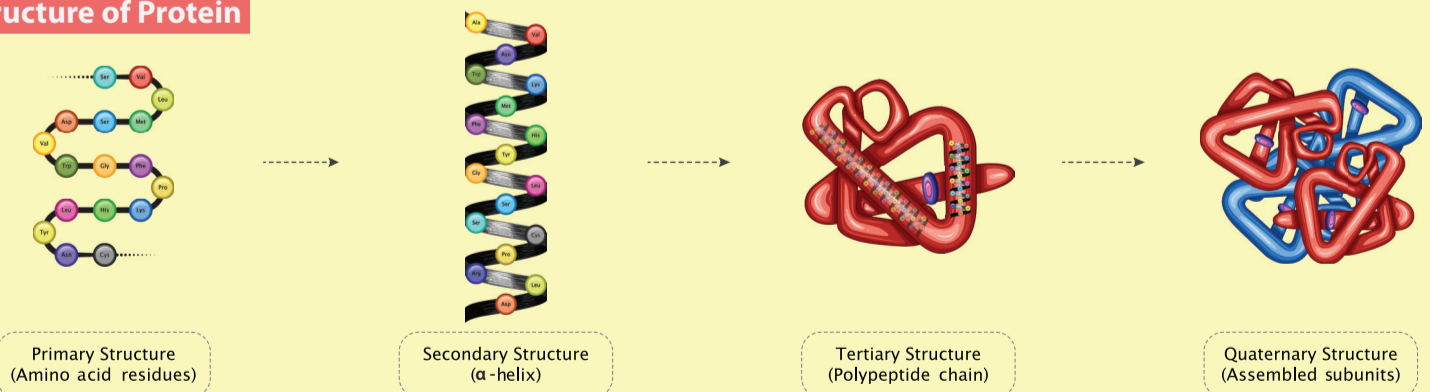
Proteins

- Made up of simpler units known as amino acids
- Linked by covalent bonds called peptide bonds

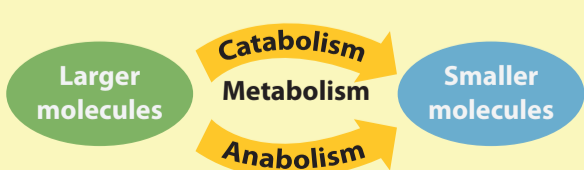


Peptide Bond

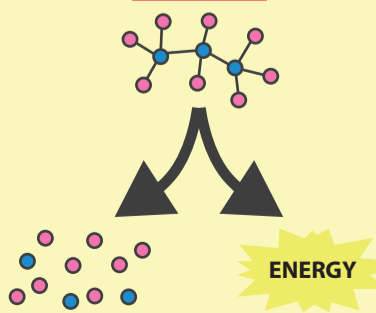
Structure of Protein



Important metabolic processes in the body- digestion, circulation, excretion, regulation of body heat

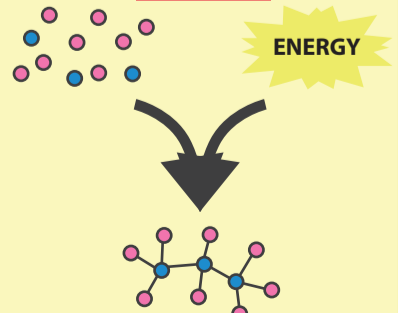


Catabolism



Endothermic reaction
By-product - Water

Anabolism



Exothermic reaction
Hydrolysis reaction