

# Z 406C – BIOCHEMISTRY

## ***UNIT-I CARBOHYDRATES***

1. Monosaccharides: Isomerism, Haworth and Fischer formula and classification
2. Oligosaccharides/Disaccharides: Maltose, Lactose, Sucrose, Cellobiose; General structure and their importance
3. Polysaccharides: Homopolysaccharides-Starch, Glycogen, Cellulose,
4. Heteropolysaccharides

## ***UNIT-II PROTEIN***

1. Classification of amino acids by different methods
2. Peptide formation and protein formation
3. Structure of protein molecule
4. Secondary bond of Protein and Protein metabolism

## ***UNIT-III LIPID***

1. Fatty acids
2. Lipid formation
3. Classification of lipids
4. Principles and pathways of lipid metabolism

## ***UNIT-IV NUCLEIC ACIDS***

1. Structure of Nitrogen base
2. Replication and Repair of DNA
3. RNA: Structure, types and synthesis
4. Nucleic acid Synthesis and Metabolism