

BIOCHEMISTRY-II

UNIT -1

Nature of genetic material: evidence that DNA is the genetic material, nucleotides, nucleosides, nitrogenous bases-purines and pyrimidines. Composition of RNA and DNA, generalized structural plan of nucleic acids, nomenclature used in writing structure of nucleic acids, features of DNA double helix. Denaturation and annealing of DNA structure and role of different types of RNA, central dogma of molecular biology

UNIT -2

General introduction of vitamin, Source, chemistry, Role of vitamin A, B-Complex, C, D, E and K

UNIT -3

General introduction of Minerals, Source, chemistry, Role of minerals Ca, Mg, Fe, Mn, P, K, Zn, Cu, I etc

UNIT- 4

Structure and role of various vital complexes e.g. Hemoglobin, Myoglobin, Chloroplast, Ferredoxins, carbonic anhydrase.

BOOKS:

1. Biomolecules: M.P. Arora
2. Biochemistry: Powar and Chatwal