

First Allied Course – III – Biochemistry – II

UNIT – I

Blood – origin of blood cells, composition characterization and coagulation.

UNIT – II

Cytochemistry – structure and biochemical composition of cell wall and plasma membrane – fluid mosaic model. Trilaminar model, receptor concept, sodium potassium pumps.

UNIT – III

Endocrine glands – pituitary, thyroids, parathyroid, pancreas, adrenal, testis and ovary. Hormones – Definition – classification, functions, diseases associated with deficiency of hormones.

UNIT – IV

General account and biosynthesis major and accessory plant pigments – chlorophylls, carotenoids, phycobilins and anthocyanins.

UNIT – V

Phytohormones and plant's secondary metabolites – structure and functions of auxin, gibberellins, cytokinins and abscisic acid.

Reference:

1. Stryer, L. 1995. Biochemistry. 4th Ed. W.H. Freeman and Company, New York.
2. Donald Voet and Judith Voet. 1990. Biochemistry. John Wiley and Sons, New York.
3. Henry, R. Mahler and Eugene, H. Cerdesz, 1966. Biological Chemistry. Harper International Edition, New York.
4. Hubert, Stryer, 1995. Biochemistry – Freeman and Company, New York.
5. Dawn, B. Markus, 1994. Biochemistry. Harwal Publishing, New York.
6. William, J. Marshall and Stephan, K. Bangert. 1995. Clinical Biochemistry – Metabolic and Clinical Aspects – Churchill Livingstone, New York