

FIRST ALLIED COURSE I - BIOLOGICAL CHEMISTRY

UNIT I:

Adjustment of cells to diverse environments like water, temperature salts, acidity, alkalinity and pressure – adaptability of prokaryotic and eukaryotic cells.

UNIT II:

Release of energy to cells, oxidation, reduction, reactions pathways of oxidoreductions, oxidative phosphorylation.

UNIT III:

Conversion of energy in cells, energy storage, energy, exchange role of enzymes.

UNIT IV:

Transport across all membrane, pinocytosis, phagocytosis, Autophagy, permeability of water and salts, salt antagonism, Active transport.

UNIT V:

Cell Cycle – Growth of normal and cancer cells, cell divisions, Synchronized cell division, cytokinesis.

REFERENCE:

1. Cell biology – Arthur, Giese, Saunders co. 1979.
2. L. Stryer 1995 Biochemistry, Freeman company, New York.
3. Lehninger – Biochemistry, Worth Publications inc. 1982 CBS Publication, New Delhi.