

FIRST ALLIED COURSE II - IMMUNOLOGY

UNIT I:

Introduction, History and Scope of immunology. Types of immunity, Antigen-Antibody reactions.

UNIT II:

Antigen – types, immunoglobulins – distribution and functions. Lymphoid tissues – ontogeny and physiology and immune system. T & B Cells – receptors – activation and function.

UNIT III:

Cellular interactions in immune response, Hypersensitivity reactions, HCA Tissue typing, transplantation immunity, vaccine production.

UNIT IV:

Immuno diagnostics – precipitation, agglutination, ELISA and FISH.

UNIT V:

Autoimmune disorders and immunology of infectious diseases including AIDS. Introduction to tumour immunology, Immune erosion, Immune suppression, General introduction to monodonal antibodies and vaccines. Structure and functions of cytokines..

REFERENCE:

1. Immunology by I.M. Roitt, J. Brostoff and D.K. Male (1993) Gower medical publishing, London.
2. Immunology by J.Jube (1991) freeman and company.
3. Immunology – A short course by E. Benzamini, G. Sunshine and Leskpwitz, Willy – Liss 1996.
4. Introduction to medical Immunology by Gabriel Virelce, Marcel Dekkar 1993.
5. Donald M.Weir, John steward, 1993.Immunology VII edition. ELBS, London.
6. Richard M.Hyde. 1995. Immunology III edition. National Medical series, Williams and Wilkins. Harward publishing company.