



Q.2 Answer any TEN from the following:

- (1) Mention two major differences between cell mediated and humoral immunity.
- (2) Define innate immunity. Mention its components.
- (3) Define antigen presenting cells with examples.
- (4) Mention various functions of antibody molecule.
- (5) Mention various features of Bone marrow as an lymphoid organs.
- (6) Enumerate various properties of IgM molecule.
- (7) Why Antigen Antibody interactions are important in diagnostics ?
- (8) What is the principle of ELISA.
- (9) Define Precipitation and Immunodiffusion.
- (10) Define Antigen processing. What is its importance?
- (11) What are MHC molecules. Mention their types.
- (12) Define monoclonal antibodies and mention components of HAT selection medium.

Q.3 (a) Write a brief note on components of Innate immunity. [5]

(b) Briefly explain various features and B and T lymphocytes [5]

OR

Q.3 (a) Write a note on active and passive immunity and its types [5]

(b) Give a Comparative account of Primary and secondary Immune response [5]

Q.4 (a) With the help of labelled diagram explain the role of spleen as lymphoid organ [5]

(b) Give a comparative account of Primary and secondary lymphoid organ. [5]

OR

Q.4 (a) Explain the function and properties of IgA and IgM [5]

(b) Explain structure of antibody molecule with neat and labelled diagram. [5]

Q.5 (a) Write an comparative account of RIA & ELISA. [5]

(b) Write a note on Immunoelectrophoresis with example [5]

OR

Q.5 (a) Write a short note on Radioimmunoassay. [5]

(b) Explain Competitive ELISA with a diagram. [5]

Q.6 Explain Hybridoma technology with proper flow chart. Mention various applications of monoclonal antibodies. [10]

OR

Q.6 (a) Explain structure of MHC class-I molecule with diagram. [5]

(b) Make a diagrammatic representation of processing of endogenous antigens. [5]