



Notes : 1. All questions are compulsory & carry equal marks.

1. Discuss the mechanism of cellular immune response. 16  

**OR**

  - a) Compare between active and passive immunity. 8
  - b) Describe the structure & function of thymus. 8
2. Discuss the mechanism and applications of precipitation reaction in Ag-Ab reaction. 16  

**OR**

  - a) Explain the mechanism of RIA with its application. 8
  - b) Describe general structure of antibody molecule. 8
3. Discuss the term immunological tolerance and add note on. Clonal selection theory of immunological. tolerance. 16  

**OR**

  - a) Write the mechanism of anaphylaxis reaction. 8
  - b) Explain the causes of autoimmunity with example. 8
4. Explain the mechanism involved in host's immune response to tumour. 16  

**OR**

  - a) Discuss the mechanism of Allograft rejection. 8
  - b) Explain the immunology of transplantation and add note on classification of transplants. 8
5. Write a note on.
  - a) Thymus dependent antigen. 4
  - b) Monoclonal antibodies. 4
  - c) Grave's disease. 4
  - d) Biochemical tumour markers. 4

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