

(3 Hours)

[Total Marks: 80]

1. Question no. 1 is compulsory
2. Attempt ANY 3 from remaining questions
3. Draw diagram wherever necessary.

- Q1. Write Short note on: (ANY 4) (20)
- a) Conjugate vaccines
 - b) Precipitation
 - c) Spleen
 - d) Monocytes
 - e) Bone marrow
- Q2. a) State and explain principles and strength of antigen-antibody interactions. (10)
 b) What is complement system? Explain ANY 1 pathway involved in it. (10)
- Q3. a) Describe ANY 1 pathway involved in antigen processing and presentation. (10)
 b) Describe the Tcell receptors along with diagram.
- Q4. a) What is Innate Immunity? (06)
 b) What is ELISA. (08)
 c) Distinguish between: a) primary and secondary immune response. (06)
- Q5. a) What is autoimmune response? Explain any 2 autoimmune disorders. (10)
 b) What are monoclonal antibodies? Explain its process of production and applications. (10)
- Q6. a) Distinguish between Cell mediated and humoral immunity. (10)
 b) Explain T cell activation and differentiation. (10)