

8/06/15

S.E - IV sem - Biotech. 816115

Sub: - Immunology and BT/IV/CBGS/IMIT

27

Immunotechnology Page: 3675  
(3 Hours)

[Total Marks : 80

- N.B.: (1) Question No. 1 is compulsory.  
(2) Attempt any three questions from question No. 2 to 6.  
(3) Draw suitable diagrams wherever required.

1. Write short notes on any four of the following :—
- (a) Precipitation reaction in fluid
  - (b) T-cell coreceptors
  - (c) MHC Haplotype
  - (d) Interferons
  - (e) Adjuvants
2. (a) Discuss the hybridoma technology used for the production of monoclonal antibody. 10  
(b) Explain the mechanism of infection and replication of HIV in human body. 10
3. (a) Classify and define hypersensitivity? Describe type II hypersensitivity. 10  
(b) Discuss in detail secondary lymphoid organs and their functions? 10
4. (a) Explain the process of MHC class I mediated antigen processing and presentation? 10  
(b) Describe the technique of Western blotting? 10
5. (a) Discuss the various parts of innate immune response. 10  
(b) Write a note on mechanism of B-cell activation and differentiation. 10
6. (a) Explain vector vaccines with a suitable example.  
(b) Write about various factors, on which the interaction between antigen and antibody depends. 20
-