

USN

--	--	--	--	--	--	--	--	--	--

06BT54

**Fifth Semester B.E. Degree Examination, June/July 2011**  
**Immunotechnology**

Time: 3 hrs.

Max. Marks:100

**Note: Answer FIVE full questions, selecting atleast TWO questions each from Part – A and Part - B.**

**PART – A**

- 1 a. Discuss the mechanisms of innate immunity. (10 Marks)  
b. What are secondary lymphoid organs? With the labeled diagram give the anatomy of a secondary lymphoid organ. (10 Marks)
- 2 a. Give a concise account on the basic structure of immunoglobulin. Add a note on different classes of immunoglobulin. (10 Marks)  
b. Write brief notes on : i) Polyclonal antibody production ii) Class switching. (10 Marks)
- 3 a. Define phagocytosis and write a note on mechanism of phagocytosis. (10 Marks)  
b. With the labeled diagram, explain structure and function of MHC. (10 Marks)
- 4 a. What is allergy? Explain hypersensitivity type – I, with suitable examples. (10 Marks)  
b. Define complements and give a note on classical pathway of complement activation. (10 Marks)

**PART – B**

- 5 a. Give an account on proposed mechanism for induction of autoimmunity. (10 Marks)  
b. Describe the mechanism of HIV infection. (10 Marks)
- 6 a. Explain the Immunosuppression, with a suitable example. (10 Marks)  
b. Write explanatory notes on : i) Tissue typing ii) Graft rejection. (10 Marks)
- 7 a. Explain the role of genetically engineered antibody in immunotherapy. (10 Marks)  
b. Write comments on : i) Catalytic antibodies ii) Recombinant DNA vaccine. (10 Marks)
- 8 a. Write the principle and types of ELISA. (10 Marks)  
b. Describe the immunoelectrophoresis and its significance in immunodiagnosis. (10 Marks)

\*\*\*\*\*

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

