

**R09**

**Code No: C0311**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech I Semester Examinations March/April 2011**

**BASIC IMMUNOLOGY  
(BIOTECHNOLOGY)**

**Time: 3hours**

**Max.Marks:60**

**Answer any five questions  
All questions carry equal marks**

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1. Briefly describe on the various phenomena of innate immunity. [12]
2. Describe the basic structure and functions if immunoglobulins. [12]
3. What are Lymphocytes? Describe the different types of T cells & their functions. [12]
4. Comment on
  - a) Role of MHC antigens [6]
  - b) Interferon's [6]
5. What is transplantation? Describe the various types of transplantations. [12]
6. Explain in detail the activation of B cells. Add a note an its surface makers. [12]
7. Briefly describe abzymes & anti idiotypic vaccines. [12]
8. Write short notes on
  - a) Immunotoxins [6]
  - b) Chimeric antibodies [6]

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