

Code No: 56081

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, December - 2017****IMMUNOLOGY****(Bio-Technology)****Time: 3 hours****Max. Marks: 75****Answer any five questions  
All questions carry equal marks**

- - -

- 1.a) Describe antigenicity and immunogenicity.  
b) Compare innate and acquired immunity. [7+8]
- 2.a) Discuss the main components of adaptive and innate immunity.  
b) Discuss major causes of inflammation in the body. [8+7]
3. Give an overview of secondary organs of lymphoid tissue and describe their role in imparting immunity. [15]
- 4.a) Define the terms Isotype, Allotype, Idiotype with suitable examples.  
b) Describe hybridoma and their significance. [7+8]
- 5.a) Describe the process of differentiation and maturation of B cells, generation of antibody diversity.  
b) Write a note on class switching of antibodies. [8+7]
- 6.a) Write a note on T cell subclasses and their functions.  
b) Describe Major Histocompatibility Classes and their polymorphism. [7+8]
- 7.a) Describe hypersensitivity its relevance and significance.  
b) Write about antibody opsonization. [8+7]
- 8.a) Describe in detail about cancer immunotherapy.  
b) Discuss how we can prevent graft rejections. [7+8]

---ooOoo---