

R09

Code No: 56081

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, May - 2019

IMMUNOLOGY

(Bio-Technology)

Time: 3 hours

Max. Marks: 75

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

1. Explain the differences between acquired and innate immunity. [15]
2. Write about T-cells, B-cells and natural killer cells in immune response. [15]
3. Explain how Thymus and bone marrow cells contribute to immunity. [15]
4. Describe various classes of immunoglobulins also mentioning their functions. [15]
5. What is Class switching in antibody diversity? [15]
6. Explain how Antigen is processed to T cells. [15]
7. Explain hypersensitivity with its types, mechanisms and significance. [15]
8. What is immunosuppression? Describe chemical and biological modes to achieve this. [15]

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