

Code No: D0305**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH II - SEMESTER EXAMINATIONS, APRIL/MAY 2012
ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY
(BIOTECHNOLOGY)****Time: 3hours****Max. Marks: 60****Answer any five questions
All questions carry equal marks**

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1. What are lymphokines? Explain the role of cytokines and lymphokines in T cell activation.
2. Discuss about plant adjuvants in detail along with an example.
3. Describe briefly the various pathways of antigen presentation.
- 4.a) What is immunotherapy? Explain its importance in HIV infection.
b) What is the role of chemokines in T cell activation?
5. Give an account of
 - a) General properties of cytokines.
 - b) Cytokine related diseases.
 - c) Polyclonal antibodies.
6. Give a detailed account of adjuvants and their role in vaccines and memory.
7. Discuss on the following
 - a) Specific and non specific immunotherapy.
 - b) T lymphocytes.
8. Discuss about the cooperation and regulation between T and B cells.
