## Code No: D0305 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD M.Tech II - Semester Examinations, March/April 2011 ADVANCED IMMUNOLOGY AND IMMUNOTECHNOLOGY (BIOTECHNOLOGY)

Time: 3hours Max		Marks: 60
Answer any five questions All questions carry equal marks		
1.	What is cell mediated immunity? How does it defend the body against in pathogens and foreign cells?	vading [12]
2.	<ul><li>Write short notes on the following:</li><li>a) Opsonization.</li><li>b) Complement activation.</li><li>c) Cell mediated cytotoxicity.</li></ul>	[4 + 4 + 4]
3.	Describe the T-Cell receptor and its function. Trace the pathway of immune response from the event of antigen recognition.	of cell mediated [6+6]
4.	Describe the mechanism of cell memory for both T and B cells of the	immune system. [12]
5.	What is meant by T cell cloning? Explain briefly the methods adopted clone.	for creating the [12]
6.	Explain, what is Cyto-immunotherapy, and under what circumstance advised?	es such therapy [12]
7.	Write briefly on: a) Aluminum Salt (Alum) adjuvant. b) Oil-in-Water Emulsions.	[6+6]
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8. List out at least three types of effective, common adjutants in use giving their properties, mechanism of action and limitations. [12]

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