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M. TECH.**THIRD SEMESTER EXAMINATION, 2008-09****IMMUNOTECHNOLOGY**Time : **3 Hours**Total Marks : **100**

Note : (I) Attempt any **FIVE** questions.
 (II) Marks are indicated against each question.

1. What do you understand by passive immunotherapy? With examples illustrate that how it is helpful in treating immunodeficiencies? 20

2. (a) Write down the objective of using each of following items in hybridoma technology :
 - (I) Polyethyleneglycol;
 - (II) Myeloma cells
 - (III) HAT medium 10
 (b) What are chimeric monoclonal antibodies and indicate how the monoclonal antibodies against Interleukin-2 receptor are used clinically? 10

3. Elucidate the mechanism of entry of HIV into a host cell with the help of a well labeled diagram and indicate the distinction of the co-receptor on a T cell and a macrophage. 20

4. (a) Describe the role of antibodies in immunity against tumors. 15
 (b) Mention the two important immunotherapeutic measures for malignant tumors. 5

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- 5. (a) Describe in detail the effector mechanism of allograft rejection with special reference to kidney transplantation. 15
- (b) Immunosuppression to prevent allograft rejection 5

- 6. Give a detailed account of Interleukin-12 stating its source of secretion, biological action and clinical use. 20

- 7. Illustrate the various uses of recombinant DNA technology in clinical diagnosis and vaccine 20

OR

Write short notes on any **Two** of the following : 10 x 2 = 20

- (a) Interferons and therapeutic potential
- (b) Peptide therapy
- (c) Polyclonal antibodies

