

Code :R5322305

R5

III B.Tech II Semester(R05) Supplementary Examinations, April/May 2011

IMMUNOLOGY

(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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1. Write short notes on the following:

- (a) Passive immunization
- (b) Active immunization
- (c) Haptens
- (d) Adjuvants.

2. Write in brief about the structure and function of the following:

- (a) Macrophages
- (b) Mast cells
- (c) T-cells
- (d) Natural killer cells.

3. Explain in detail about the structure and function of mucosal associated lymphoid tissue.

4. What is systemic defense (SD)? Name the cells in the blood which contribute to SD and their function.

5. Write short notes on:

- (a) Signal transduction through BCR
- (b) Affinity maturation
- (c) Pharmaceutical applications of immunotoxins.

6. Discuss how endogenous antigens processed & presented through MHC.

7. Discuss the biochemical events that takes place during Mast Cell activation & degranulation.

8. Discuss the Systemic autoimmune disorders with suitable examples.

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