

Code No: R05322305

Set No. 1

III B.Tech II Semester Regular Examinations, Apr/May 2008

IMMUNOLOGY

(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is the difference between immunogen and antigen? Name the factors and explain how they influence the immunogenicity?
2. What is haematopoiesis? Describe the pathways and cells which originate from haematopoiesis. [16]
3. Explain in detail about the structure and function of mucosal associated lymphoid tissue. [16]
4. What is systemic defense (SD)? Name the cells in the blood which contribute to SD and their function. [16]
5. Give the schematic presentation of signal transduction pathways through which B Cell get activated. [16]
6. Compare and differentiate TCR with mIg molecule. [8+8]
7. Discuss the treatment modalities for controlling the Type I Hypersensitivity reactions. [16]
8. Discuss the Systemic autoimmune disorders with suitable examples. [16]

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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. [4+4+4+4]
3. What are the differences between primary and secondary organs? Explain in short about the structure and function of bone marrow and spleen. [16]
4. What is systemic defense (SD)? Name the cells in the blood which contribute to SD and their function. [16]
5. Give the schematic presentation of signal transduction pathways through which B Cell get activated. [16]
6. Discuss how the MHC is involved in disease susceptibility. [16]
7. Discuss the mechanism of Chemiluminescence and its applications in clinical diagnosis. [16]
8. Write short notes on:
 - (a) Acute rejection
 - (b) TUMOR INFILTRATING LYMPHOCYTES
 - (c) Sequestered organs
 - (d) Lymphokine-activated Killer Cells. [4+4+4+4]

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Set No. 3

III B.Tech II Semester Regular Examinations, Apr/May 2008

IMMUNOLOGY

(Bio-Technology)

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. What is innate immunity? Write about the cells involved and their role in innate immunity?
2. What is haematopoiesis? Describe the pathways and cells which originate from haematopoiesis. [16]
3. Explain in detail about the structure and function of mucosal associated lymphoid tissue. [16]
4. What is systemic defense (SD)? Name the cells in the blood which contribute to SD and their function. [16]
5. Write short notes on:
 - (a) Applications of abzymes
 - (b) Clinical uses of Monoclonal antibodies
 - (c) HAT Medium. [5+5+6]
6. Compare and differentiate TCR with mIg molecule. [8+8]
7. Discuss various types of ELISA. [16]
8. What is immunological tolerance? How is tolerance is crucial for prevention of autoimmune disorders? [16]

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Set No. 4

III B.Tech II Semester Regular Examinations, Apr/May 2008

IMMUNOLOGY

(Bio-Technology)

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. What is acquired immunity? Write about the cells involved and their role in acquired immunity?
2. Write in short different cells of immune system and their mode of action. [16]
3. What are the differences between primary and secondary organs? Explain in short about the structure and function of bone marrow and spleen. [16]
4. What is systemic defense (SD)? Name the cells in the blood which contribute to SD and their function. [16]
5. Explain the signal transduction pathways through which B Cell get activated.[16]
6. Discuss how endogenous antigens processed & presented through MHC. [16]
7. Explain the various Ag-Ab reactions that are used in clinical diagnosis. [16]
8. What are generalized and specific immunotherapies? [16]
