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BCH 502

III Semester M.Sc. Biochemistry Examination, December 2018
IMMUNOLOGY

Time : 3 Hours

Max. Marks : 70

Note : Answer **any ten** from Part **A** and **any five** from Part **B**

PART – A

1. Answer **any ten** of the following. **(10×2 = 20)**
- a) What is immune response ?
 - b) What do you mean by sequential and conformational epitopes ?
 - c) What are antigen presenting cells and mention the different proteins involved in Ig presenting cells ?
 - d) What are interleukins ? Mention the different IL and growth factors produced during activation and proliferation of B and T cells.
 - e) What are nonspecific immune components ?
 - f) What is allotypic variation ?
 - g) What is immunotolerance ?
 - h) Where lymphocytes are located ?
 - i) What is immune surveillance ?
 - j) What are effector lymphocytes ?
 - k) What is immunodiffusion ?
 - l) What are attenuated vaccines ? Give examples.

P.T.O.



PART – B

Answer **any five** of the following.

(5×10=50)

2. a) Discuss innate and acquired immunity. **(5+5)**
b) Write a note on primary and secondary lymphoid organs.
 3. a) Classify immunoglobulins and explain the structure of IgG. **(5+5)**
b) Explain the mechanism of inflammation.
 4. a) Explain the genetic basis of immunoglobulin diversity. **(5+5)**
b) Discuss the mechanism of complement activation.
 5. a) Explain the role of MHCs in immune response. **(5+5)**
b) What is hypersensitivity reaction ? Explain the mechanism of type II hypersensitivity.
 6. a) Discuss on graft rejections reaction. **(5+5)**
b) Write a note on SCID symptoms and diagnosis.
 7. a) Discuss tumour associated antigens with suitable example. **(5+5)**
b) Explain the immunological basis of AIDS.
 8. a) Describe the process of development of monoclonal antibodies. **(5+5)**
b) Explain the Burnet's clonal selection theory of antibody production.
 9. a) Discuss immuno-electrophoresis and its applications. **(5+5)**
b) Write a note on antigen-antibody interactions.
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