

D 41696

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Name

Reg. No......

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2008

General Biotechnology
GBT 214—IMMUNOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any **two** questions.
Each question carries 10 marks.*

1. Write an account on "Built in Barriers".
2. What is the role of T cells in CMI response ? Explain.
3. What are antigen processing and presenting cells ? How do they help in defense mechanism of host ?

(2 x 10 = 20 marks)

Section B

*Answer any **ten** questions.
Each question carries 5 marks.*

4. Differentiate between Natural and Artificial immunity.
5. What do you mean by pinocytosis ? Name the type of cell involved in this.
6. Write notes on Immunosuppression.
7. Draw a labelled diagram of a typical immunoglobulin.
8. How do an antigen differ from a super antigen ? Explain with example.
9. What are cytokines ? How do they help in defense ?
10. Name the types of MHC molecules and their role.
11. Draw and explain TCR and BCR.
12. Write an account on Type I hypersensitivity.
13. What do you mean by HLA ? How will you do test a tissue matching ?
14. Name the primary lymphoid organs. Add a note on their structure and function.
15. Write the contributions made by Kohler and Milestein.

(10 x 5 = 50 marks)

Turn over

Section C

Answer all questions.

Each question carries 2 marks.

16. Name the Immunoglobulin that is a pentamer and can agglutinate.
17. How will you make a toxoid from toxin ?
18. Define immunologic tolerance.
19. What are complements ? Name an experimental animal from which one can get complement for lab use.
20. What are stem cells ?

(5 x 2 = 10 marks)