

D 26243

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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
SEPTEMBER/OCTOBER 2006**

General Biotechnology

GBT 214—IMMUNOLOGY

Time : Three Hours

Maximum : 80 Marks

Section A

*Answer any **two** questions.*

*Each question carries **10** marks.*

1. Write down **th** interactions between antigen and antibody with suitable examples.
2. Give a detailed account on the importance of primary and secondary lymphoid organs,
3. Explain **th**e principle of monoclonal antibody production. What are the advantages and disadvantages of the same ?

(2 x 10 = 20 marks)

Section B

*Answer any **ten** questions.*

Each question carries 5 marks.

4. What is **HLA** ? Describe its structure and function.
5. What are the gene segment codes for L and H chains ?
6. Write down the mechanism of immunity to parasites.
7. Explain the mechanism involved in the graft *vs.* host rejection.
8. Write down the structure and biological functions of **cytokines**.
9. Write an account of immune complex mediated hypersensitivity.
10. Give a brief account of cell-mediated immunity.
11. Describe the classical pathway of complement system with its biological functions.
12. State the various methods for isolation and purification of antigens.
13. Define **autoimmunity**. Classify them and make a note on the disease.
14. Explain the various types of immunity with examples.
15. Discuss the role of **immunotherapy** in relation to tumour.

(10 x 5 = 50 marks)

Turn over

Section C

Answer all questions.

Each question carries 2 marks.

16. What are the clinical features of AIDS ?
17. Define attenuation.
18. Write down the importance of radialimmunodiffusion.
19. Define idiotypic.
20. What is immunological memory ?

(5 x 2 = 10 marks)