

D 52608

Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, FEBRUARY 2009

General Biotechnology
GBT 214—IMMUNOLOGY

Maximum : 80 Marks

Time : Three Hours

Section A

*Answer any **two** questions.*

1. Write an essay on 'Immunoglobulin super gene family'.
2. 'Humoral Immunity end in antibody production'—Justify.
3. How do APC acts ? Explain.

(2 x 10 = 20 marks)

Section B

*Answer any **ten** questions.*

4. How do innate immunity differ from adaptive immunity.
5. What do you mean by positive and negative selection ?
6. How do NK cell acts against a foreign material ?
7. Draw and explain the cross-section of a Lymph node.
8. What are super antigens ? In what way does it differ from antigen ?
9. 'Antigen recognition MHC restricted'. Justify.
10. How do complement helps in defense mechanism ?
11. What are cytokines ? Name some with their role in defense system.
12. List various types of hypersensitivity reactions and explain allergy.
13. How will you produce monoclonal antibodies ?
14. What do you understand by the term 'Lymphocyte traffic' ? Explain.
15. How do HLA helps in transplantation immunology ?

(10 x 5 = 50 marks)

Section C

*Answer **all** questions.*

16. Define Hapten and Immunogen.
17. What do you mean by immunosuppression ?
18. Expand AIDS. Name the causative agent.
19. What does the term 'autoimmunity' ? Explain.
20. List immuno modulators.

(5 x 2 = 10 marks)