

D 51719

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Name

Reg. No.

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION
DECEMBER 2013**

(CUCSS)

Biotechnology

GB 3 C4 – IMMUNOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answers **all** questions.*

1. Active Immunity.
2. NK Cells.
3. Dendritic cells.
4. Idiotypic.
5. Precipitation.
6. Avidity.
7. B lymphocyte.
8. Interferon.
9. Delayed hypersensitivity.
10. Cyclophosphamide.

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

11. Role of macrophages in body defence.
12. Describe different types of Immunity.
13. Explain Hematopoiesis and cell differentiation.
14. Describe basic structure of Immunoglobulin.
15. What is MHC? Explain its structure.
16. What is complement? Explain any *one* of complement system.

Turn over

17. What is Auto immunity? Discuss any *two* auto immune diseases.
18. Discuss about the factors effecting organ transplantation.
19. Explain production and therapeutic application of monoclonal antibody.
20. Give an account on Immunity to various infectious agents.

(7 x 2 = 14 weightage)

Section C

*Answer any **two** questions.*

21. Describe different Antigen-Antibody interactions.
22. Write an essay on organs of Immune system.
23. Explain briefly *humoral* and cell mediated immune responses.

(2 x 6 = 12 weightage)