

D 91637

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Biotechnology

GB 3C 4—IMMUNOLOGY

Time : Three Hours

Maximum : 36 Weightage

Section A

*Answer **all** questions.*

Each question carries 1 weightage.

1. What do you mean by heavy chains of Ig ?
2. What are CD8 T cells ?
3. Give the significance of HAT medium.
4. What is Graft rejection ?
5. What are tumor antigens ?
6. List the important functions of interferons.
7. Differentiate between passive and active immunity.
8. What are histamines ?
9. What is the role of macrophages in immunity ?
10. What do you mean by precipitation reaction ?

(10 x 1 = 10 weightage)

Section B

*Answer any **seven** questions.*

Each question carries 2 weightage.

11. Give the principle of ELISA. With the help of figures describe the types of ELISA.
12. How does autoimmunity affect thyroid gland ?
13. Briefly explain the typical structure of antibody.
14. Discuss the important properties of antigens.
15. What are oncogenes ? How can they induce cancer ?
16. Comment on the applications of MAb.
17. Which are the defense mechanism against bacterial infections ?
18. Describe the mechanism of graft rejection.

Turn over

19. Give the significance of class **II** MHC.
20. Discuss the regulation of Immune response.

(7 x 2 = 14 weightage)

Section C

*Answer any **two** questions.*

Each question carries 6 weightage.

21. Explain the treatment approaches towards hypersensitivity reactions. Add a note on the types of hypersensitivity reactions.
22. Discuss the different techniques based on antigen antibody interactions.
23. Give a description on primary and secondary lymphoid org

(2 x 6 = 12 weightage)