



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – ZOOLOGY

SECOND SEMESTER – APRIL 2015

ZO 2819 - IMMUNOLOGY

Date : 21/04/2015

Dept. No.

Max. : 100 Marks

Time : 01:00-04:00

Part A

Answer ALL the questions

(10×2=20 Marks)

1. Relate somatic variation theory to immune system.
2. Expand GTP, MALT, IDDM and FADD.
3. Define antigen presenting cells.
4. Describe a method to identify human T cells.
5. Explain autoimmunity.
6. What are anti idiotypic antibodies ?
7. Write the characteristics of innate immunity.
8. Differentiate interferon from opsonin.
9. Explain reticular dysgenesis.
10. Pick out the points of evolution of adaptive innate system.

Part B

Answer any FOUR questions

(4×10=40 Marks)

11. Describe the structure, characteristics and functions of IgG and IgM.
12. Give an account on the applications of Monoclonal antibodies.
13. Describe the role of cytokines in immunogenic reaction.
14. Explain the immune responses shown to viral, bacterial and parasite infections.
15. Discuss the role of secondary lymphoid organs in immunity.
16. Write notes on AIDS.

Part C

Answer any TWO questions

(2×20=40 Marks)

17. a. What is MHC restriction?
b. Explain its immunologic significance.
18. a. Define antigen processing.
b. Elucidate various steps in processing and presentation of antigens by cytosolic pathway.
19. a. Mention the evidences that implicate CD4+ , T cells, MHC and TCR in autoimmunity.
b. What are the modern methods used in the treatment of autoimmune disease?
20. a. Give an account of the different types of vaccine.
b. Highlight the advantages and disadvantages of vaccines.
