



**LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034**

**M.Sc. DEGREE EXAMINATION - ZOOLOGY**

**SECOND SEMESTER – APRIL 2013**

**ZO 2819 - IMMUNOLOGY**

Date : 02/05/2013  
Time : 9:00 - 12:00

Dept. No.

Max. : 100 Marks

**PART- A**

**Answer ALL the questions**

**(10×2=20 Marks)**

1. What are protooncogenes?
2. Distinguish monoclonal from polyclonal antibodies.
3. Mention any two factors influencing immunogenicity.
4. What are interferons?
5. Comment on hybridoma.
6. Give a brief note on opsonin.
7. Name any two organs of immune system.
8. Expand DPT and MHC
9. What are autografts?
10. What are immunoglobulins?

**PART- B**

**Answer any FOUR**

**(4×10=40 Marks )**

11. Write a paragraph on the cells of immune system.
12. Give an account of Erythroblastosis foetalis.
13. Explain any two types of immunodeficiency syndromes.
14. Compile the factors influencing immunogenicity.
15. Write notes on innate immunity.
16. Explain in detail antigen antibody reaction with a suitable example.

**PART- C**

**Answer any TWO**

**(2×20=40 Marks)**

17. a ) What is acquired immune deficiency syndrome?  
b) Explain in detail about the causative agent, prevention, control measures and impact of AIDS virus on human.
18. a )What is agglutination  
b) Give an account of monoclonal and polyclonal antibodies.
19. a) What are epitopes, B cells and T cells?  
b) Give an account of transplantation immunology.
20. a )Define Manipulation of immune response.  
b) Give an account of evolution of innate and adaptive innate system.

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