

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

M.Sc. DEGREE EXAMINATION – MEDICAL LAB. TECHNOLOGY

SECOND SEMESTER – APRIL 2010

ML 2811 - IMMUNOLOGY

Date & Time: 19/04/2010 / 1:00 - 4:00

Dept. No.

Max. : 100 Marks

Answer **ALL** questions

PART-A

(10 × 2 = 20 Marks)

1. Name the tertiary lymphoid tissues.
2. What are the two types of null cells?
3. Define epitope and paratope.
4. What is HLA?
5. List the causative agents of hypersensitivity reactions.
6. What is transplantation? What are the different types?
7. Define sequestered antigens.
8. Classify autoimmune diseases.
9. Differentiate precipitation from agglutination.
10. Define hapten.

Answer any **FOUR** questions

PART –B

(4 × 10 = 40 Marks)

11. List the primary lymphoid organs and summarise their functions.
12. Explain the structure and function of IgG and IgA.
13. Write briefly on production of monoclonal antibody by hybridoma technology.
14. Write short notes on a) Recombinant vector vaccines b) DNA vaccines
c) Attenuated vaccines and d) Toxoid vaccines
15. Explain autoimmune diseases caused by antibody binding.
16. Write notes on FACS and immunoelectron microscopy.

Answer any **TWO** questions

PART – C

(2 × 20 = 40 Marks)

17. Write an essay on innate immunity.
18. What is allograft rejection? Explain its mechanism.
19. Explain in detail systemic autoimmune diseases.
20. Discuss agglutination reactions.
