

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



**B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

**FIFTH SEMESTER – APRIL 2018**

**AZ 5517– IMMUNOLOGY**

Date: 30-04-2018

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

**PART – A**

**Answer ALL the questions:**

**(10x2=20)**

1. What is adaptive immunity?
2. Write a note on Bursa of Fabricius.
3. What is HLA antigen?
4. Write a note on antibody engineering.
5. What are cytokines?
6. Differentiate autograft from xenograft.
7. Define hypersensitivity.
8. Expand TSTA and TAA.
9. Write about diphtheria.
10. Differentiate vaccine from immunization.

**PART – B**

**Answer any FOUR questions:**

**(4x10=40)**

11. Write a paragraph on the types of immunity.
12. Describe Thymus glands and Lymph nodes.
13. Briefly explain the characteristics of B cell epitopes.
14. Explain the structure and properties of antibodies.
15. Comment on regulation and modulation of immune response.
16. Discuss any four types of autoimmune diseases.
17. Give an account on immunotherapy for Tumors.
18. What are post natal disease? Add a note on their prevention.

**PART – C**

**Answer any TWO questions:**

**(2x20=40)**

19. Write an essay on cells and organelles of immune system.
20. Write an essay on transplantation immunology.
21. Describe in detail the Hybridoma technology.
22. Write a detailed account on AIDS.

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