



LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – NOVEMBER 2019

17UZO5MC04 / AZ 5517 – IMMUNOLOGY

Date: 04-11-2019

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part A

ANSWER ALL QUESTIONS:

(10*2=20)

1. Define chemotaxis
2. Define apoptosis.
3. Abzymes
4. Antigenic determinants.
5. Cytokines
6. Adjuvants
7. Types of grafts
8. Tumor antigen
9. Vaccination and Immunization
10. Allergens and Infection

Part B

ANSWER ANY FOUR QUESTIONS

(4*10=40)

11. Explain secondary lymphoid organ.
12. Write short notes on structure of HLA antigen.
13. Explain the primary and secondary immune response.
14. Write short notes on rejection of grafts.
15. Discuss about the immunity against infection.
16. Explain the types of immunity.

Part C

ANSWER ANY TWO QUESTIONS

2*20=40

17. Explain cells of immune system.
18. Explain the MCA by hybridoma technology
19. Define hypersensitivity. Explain type I and IV with neat sketch.
20. What is autoimmunity? Explain its types.
