

LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034



B.Sc. DEGREE EXAMINATION – ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER – NOVEMBER 2017

AZ 5517 – IMMUNOLOGY

Date: 03-11-2017

Dept. No.

Max. : 100 Marks

Time: 09:00-12:00

Part A

Answer All the questions:

(10 X 2 = 20)

1. Innate and adaptive immunity
2. GALT
3. Haematopoiesis
4. Haptens
5. Histocompatibility
6. Monoclonal antibody
7. Effectors
8. Adjuvants
9. Immunotherapy
10. AIDS

Part B

Answer any FOUR questions:

(4 X 10 = 40)

11. What are the general concepts of immune system?
12. Explain the structure and functions of the immune cells
13. Write short notes on T dependent and T independent antigens.
14. Comment on structure and properties of the antibody.
15. What is the Hybridoma technology.
16. Explain the mechanism of hypersensitive reaction.
17. Name the types of grafts and explain the immunological basis of graft rejection.
18. Define vaccines. Comment on the types and uses.

Part C

Answer any TWO questions:

(2 X 20 = 40)

19. Describe & Discuss the following
 - a) lymph nodes
 - b) Peyer's patches and Kupffer cells
 - c) GALT
20. Detailed account on isotype, allotype and idiotype
21. Write an essay on regulation and modulation of immune response.
22. Explain the immunity against viral, bacterial and parasitic infection.
