

Reg. No

Name

18P3647

MSc DEGREE END SEMESTER EXAMINATION - OCTOBER 2018**SEMESTER 3 : ZOOLOGY****COURSE : 16P3ZOOT12 : IMMUNOLOGY***(For Regular - 2017 Admission & Supplementary - 2016 Admission)*

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. What is GALT?
2. How does functional flexibility enhance antibody diversity?
3. What is ADCC?
4. List out the non covalent interactions that forms the basis of Ag-Ab binding.
5. Distinguish between affinity and avidity.
6. Brief on lectin pathway of complement activation.
7. What are the main functions of cytokines?
8. Brief on type-1 hypersensitivity.
9. Structure of Class II MHC.
10. What is LAD?
11. What is SLE?
12. What is immune electron microscopy?

(2 x 8 = 16)**Section B****Answer any 7 (5 marks each)**

13. Brief on hematopoiesis.
14. What are the main factors which affect immunogenicity?
15. Describe the structure and functions of major antibodies in humans.
16. What is ELISA? Mention the major types.
17. Note on Ab dependent complement activation pathway.
18. Brief on the major types of hypersensitivity?
19. Role of mast cells and basophils in type-1 hypersensitivity.
20. Brief on the general organization and inheritance of MHC.
21. Mention on organ specific autoimmunity.
22. Give an account of Flow cytometry and fluorescence.

(5 x 7 = 35)

Section C

Answer any 2 (12 marks each)

23. Give an elaborate account of B cell maturation and activation.
24. What are monoclonal antibodies? How are they produced? Mention their main functions.
25. Elaborate the main complement activation pathways.
26. What are vaccines? Mention different types.

(12 x 2 = 24)