

Reg. No Name

17P3647

MSc DEGREE END SEMESTER EXAMINATION- OCTOBER-NOVEMBER 2017

SEMESTER 3 : ZOOLOGY

COURSE : 16P3ZOOT12 ; IMMUNOLOGY

(For Regular - 2016 admission)

Time : Three Hours

Max. Marks: 75

Section A

Answer any 8 (2 marks each)

1. Brief on B cell maturation.
2. What is a light chain in antibody?
3. What are monoclonal antibodies?
4. What is a precipitation reaction?
5. What is immunoelectrophoresis?
6. What are the major biological consequences of complement activation?
7. Which are the major inflammatory cells?
8. Brief on type-2 hypersensitivity.
9. Brief on major types of MHC
10. Mention on CGD.
11. Note on whole organism vaccines.
12. What is serum sickness?

8 x 2 (16)

Section B

Answer any 7 (5 marks each)

13. Differentiate humoral and cell mediated immunity
14. What are monoclonal antibodies and how are they made?
15. How do haptens increase immunogenicity?
16. What is ELISA? Mention the major types.
17. Brief on complement activation pathways.
18. Brief on the major types of hypersensitivity?
19. Brief on the general organization and inheritance of MHC.
20. Brief on the biological significance of MHC.
21. Brief on systemic autoimmune diseases.

22. Brief on major immunological techniques.

7 x 5 (35)

Section C

Answer any 2 (12 marks each)

23. What is immunity? Mention the main types in it.

24. Describe the methods in which antibody diversity is generated?

25. Describe the multigene organization in immunoglobulin genes.

26. What are vaccines? Mention different types.

2 x 12 (24)