25047322

QP CODE: 25047322

Reg No : .....

Name : .....

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc ZOOLOGY

Core Course - ZL010304 - IMMUNOLOGY

2019 ADMISSION ONWARDS

BC1758F3

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. What is clonal anergy with respect to T cell activation?
2. Give a brief account of Toll Like Receptors.
3. Comment on the clinical applications of Immunotoxins.
4. What are the different kinds of interactions between an antibody and an antigen?
5. What is RAST?
6. What is G-CSF?
7. Comment on Wiskott-Aldrich Syndrome.
8. Comment on antigen sequestration.
9. What are live attenuated vaccines?
10. What is the difference between generalized and target specific immunosuppressive therapy?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Explain the factors that influence Immunogenicity.
12. Describe the biological functions of various classes of antibodies.
13. Complement system mediates the interface between innate and adaptive immunities'. Explain.

14. Describe the mechanism of chronic inflammation.

15. What is a congenic strain with respect to MHC? Explain how these strains help in experimental studies.

16. Cite the major differences in peptide interaction by Class I and Class II MHC molecules

17. Explain the immune responses during bacterial infection.

18. Describe the mechanism of hyperacute rejection by preexisting antobodies.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Write an essay on the generation of antibody diversity.

20. Write an essay on the biological consequences of complement activation and its deficiencies.

21. Elaborate on types of hypersensitivity.

22. Describe various pathways of antigen processing and presentation.

(2×5=10 weightage)