QP CODE: 25022295

# M.Sc DEGREE (CSS) SPECIAL REAPPEARANCE EXAMINATION, APRIL 2025

### **Third Semester**

M.Sc ZOOLOGY

## CORE - ZL010304 - IMMUNOLOGY

2019 ADMISSION ONWARDS

F339E719

Time: 3 Hours

Part A (Short Answer Questions)

Answer any eight questions.

Weight **1** each.

- 1. Give a brief account of Toll Like Receptors.
- 2. Write note on haptens.
- 3. Comment on the mechanism of allelic exclusion.
- 4. Cross reactivity of antibodies creates problems for their application in serology.' Explain the statement.
- 5. Write a short note on C1 complex.
- 6. What are interleukins?
- 7. Comment on anchor residues.
- 8. What is HLA typing?
- 9. What is HIV? How does it affect the immune system?
- 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.

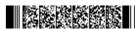
#### Weight **2** each.

- 11. Write an account on mucosal-associated lymphoid tissues in human.
- 12. Give an account of hybridoma technology and its clinical applications.
- 13. Draw and explain precipitin curve for a quantitative precipitation reaction.
- 14. Describe inflammatory response.

15. Make notes on autoimmune diseases that target specific organs.



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Weightage: 30



- 16. Describe the strategies used by pathogens to evade the immune system.
- 17. Differentiate between active and passive immunization.
- 18. Explain the process involved in sensitization and effector stages of graft rejection.

(6×2=12 weightage)

### Part C (Essay Type Questions)

Answer any **two** questions.

Weight 5 each.

- 19. Explain the structural and functional aspects of different classes of antibodies.
- 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)