

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024
(Regular/Improvement/Supplementary)

ZOOLOGY
FZOL3C08 - IMMUNOLOGY & CYTOGENETICS

Time: 3 Hours**Maximum Weightage: 30****Part A: Answer any *four* questions. Each carries *two* weightage.***Write short notes on:*

1. Genes involved in the regulation of haematopoiesis.
2. Cadherin and selectin.
3. Immunological basis of graft rejection.
4. Type I hypersensitivity reactions.
5. Cross reactivity.
6. Any two auto immune diseases.
7. Necrosis.

(4 × 2 = 8 weightage)

Part B: Answer any *four* questions. Each carries *three* weightage.

8. Discuss class- I MHC molecules and genes in detail.
9. Write a note on T cell receptors with a suitable diagram.
10. What are the factors influencing immunogenicity?
11. Explain western blot technique.
12. Write a note on adaptive immunity.
13. Give the properties of B cell epitope.
14. Explain the process of apoptosis.

(4 × 3 = 12 weightage)

Part C: Answer any *two* questions. Each carries *five* weightage.

15. Discuss in detail the signaling mechanism through G protein linked receptors.
16. Write an essay on vaccines.
17. Describe complement activation and its regulation.
18. Explain the mechanism of generation of antibody diversity.

(2 × 5 = 10 weightage)