



QP CODE: 25022227



25022227

Reg No :

Name :

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

Third Semester

M.Sc BIOINFORMATICS

CORE - BT010301 - IMMUNOLOGY

2019 ADMISSION ONWARDS

E8C4D565

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is peyers patches?
2. What are CTLs?
3. Differentiate between Class 1 and Class 2 MHC molecules.
4. How cytokines mediate cell communications?
5. What is the outcome if thymus fails to develop in an individual?
6. What is immunomodulation?
7. Explain briefly SCID.
8. What is GVH response?
9. Explain immunoprophylaxis.
10. What are second generation vaccines?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Write a short note on several innate immune mechanisms .
12. Discuss and distinguish between B cell and T cell epitope.
13. Comment on endocytic pathway of processing antigens.





14. Explain biological functions of complement.
15. Explain the role of T reg cells in peripheral tolerance.
16. Explain antibody mediated cytotoxic hypersensitivity reactions.
17. Briefly describe current therapies for autoimmune diseases.
18. Explain the application of ArrayPitope in immunology.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Give a detailed account on types, sources and mode of transmission of infection.
20. Explain VDJ recombination mechanism in detail.
21. Explain in detail the sequence of events in B cell activation.
22. What is immunological surveillance. Explain several mechanisms by which tumor cells evade the immune system.

(2×5=10 weightage)

