

QP Code: P25B031

Reg. No :

Name :

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

II SEMESTER (CBCSS - PG) DEGREE EXAMINATION, MARCH 2025

M Sc Microbiology

MBG2C08 : IMMUNOLOGY

2024 Admission Onwards

Time:3 Hours

Maximum Weightage:30

Part A

*Short answer type questions: Answer **any four** questions. Weightage 2 for each question.
(4x2 = 8 Weightage)*

1. Explain acquired immunity. [BTL2]
2. Describe the function of TNF. [BTL1]
3. Describe the characteristic features of secondary immune response. [BTL2]
4. Analyse the function of antigen presenting cells. [BTL4]
5. Identify the causes of autoimmune diseases. [BTL4]
6. Outline the mediators of Anaphylaxis. [BTL2]
7. Explain various types of Immunotherapy methods in cancer. [BTL3]

Part B

*Short essay-type questions: Answer **any four** questions. Weightage 3 for each question.
(4x3 = 12 Weightage)*

8. Differentiate inactivated and live attenuated vaccines. [BTL4]
9. Explain the principle of RIA. [BTL2]
10. Summarize the presentation and processing of intracellular antigens. [BTL2]
11. Distinguish between second set rejection and first set rejection. [BTL4]
12. Analyse the mechanism and implications of the production of anti-Rh-antibodies in Rh incompatible pregnancies. [BTL4]
13. Explain the role of spleen in immune response. [BTL2]
14. Evaluate the role of V(D)J recombination in contributing antibody diversity. [BTL5]

Turn Over

Part C

*Essay-type questions: Answer **any two** questions. Weightage 5 for each question.
(2x5 = 10 Weightage)*

15. Explain the mechanism of complement activation. Add a note on the functions of the complement system. [BTL2]
16. Discuss the importance of tolerance in maintaining immune homeostasis. [BTL2]
17. Discuss the role of key cells involved in the Cell Mediated Immunity (CMI). [BTL4]
18. What are monoclonal antibodies? Discuss the process of generating monoclonal antibodies by hybridoma technology. [BTL4]
