

TM254372Y

Reg. No :

Name :

**MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2025
2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
ZOOLOGY SEMESTER IV - ELECTIVE COURSE
ZO4E02TM20 - Molecular Immunology**

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. Tabulate the differences between active and passive immunity.
2. Outline the concept of epitope.
3. Compose a brief note on inflammatory mediators.
4. Compile the causes and consequences of hereditary angioedema.
5. Define MAC. Trace the events involved in its formation.
6. Emphasize on HLA complex in humans.
7. Infer the role of lymphokines in immune regulation.
8. List out the treatment measures of autoimmune diseases.
9. Comment on WAS.
10. What is graft rejection? Indicate the three types of graft rejection reactions.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Explicate the concept of antibody engineering.
12. Analyze the role of secondary lymphoid organs in immunity.
13. Emphasize on complement fixation.
14. Mention the principle and applications of Western blotting.
15. Describe the mechanism for Type V hypersensitivity. Cite an example.
16. Explain delayed Type IV hypersensitivity reaction.
17. Examine critically the causes and types of immunodeficiency diseases.
18. Describe the various stages in cell mediated graft rejection.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Justify that the non – specific components of innate immunity acts as barriers of a wide range of pathogens irrespective of their antigenic make up.
20. Elaborate on the activity of complement system in immunity.
21. Illustrate and describe the pathways involved in processing and presenting endogenous and exogenous antigens.
22. Give an account on the different types of vaccines available. Highlight their advantages and disadvantages.