

M. Sc. DEGREE END SEMESTER EXAMINATION - OCTOBER 2025**SEMESTER 3 : ZOOLOGY****COURSE : 24P3ZOOT12 : IMMUNOLOGY***(For Regular - 2024 Admission)*

Time : Three Hours

Max. Weights: 30

PART A**Answer any 8 questions****Weight: 1**

1. Points out difference between peptide binding by Class I and Class II MHC molecules. (A)
 2. What is flow cytometry? (U)
 3. Differentiate between acute and chronic transplant rejection. (U)
 4. What is immunoelectrophoresis? (R)
 5. What is membrane attack complex? (U)
 6. What are monoclonal antibodies? (R)
 7. What are abzymes? (U)
 8. What is the stimuli for acute inflammation? (R)
 9. What are interferons? (U)
 10. Brief on type-2 hypersensitivity. (R)
- (1 x 8 = 8)**

PART B**Answer any 6 questions****Weights: 2**

11. Write a short account on the properties of cytokines. (U)
 12. What is the role of APCs in processing of an antigen? (U)
 13. Regulation of complement system. (U)
 14. What are vaccines? Mention important types in it. (R)
 15. Comment on the biological significance of MHC. (R)
 16. Describe the major antigen antibody reactions? (R)
 17. Explain the genetics of allergic responses in humans. (R)
 18. Describe RAST. (R)
- (2 x 6 = 12)**

PART C**Answer any 2 questions****Weights: 5**

19. Elaborate on immunologic basis of graft rejection. (U)
 20. Explain the two antigen processing and presentation pathways? (An)
 21. Elaborate on chronic inflammation. (U)
 22. Give an elaborate account of B cell maturation and activation. (An)
- (5 x 2 = 10)**

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
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Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;