

PG CBCS
M.SC. Semester-III Examination 2021
MEDICAL LABORATORY TECHNOLOGY
PAPER: MLT 302
(IMMUNOLOGY)

Full Marks: 40**Time: 2 Hours****Answer any FOUR questions of the following:****10X4=40**

1. Why does NK cell selectively kill the cancer cell not the healthy cells? Describe the target cell killing mechanism of NK cell. 2+8
2. Write the name of positive and negative co-stimulatory molecules. Discuss the importance of co-stimulatory molecule in T-cell activation. 3+7
3. Which are the immune privilege site of human body? How does tolerance induce in T-cells and B-cells? On "Rheumatoid arthritis is an autoimmune disease".-Justify the statement. 2+5+3
4. Discuss the comparison between monoclonal and polyclonal antibody. What is hybridoma technology? Write the importance of HAT medium in hybridoma technology. 3+2+5
5. Why is isograft accepted but allograft may be rejected by the recipient? What is MLR? Describe the different types of sensitization stages during allograft rejection. 3+2+5
6. What is atopy? Write the symptoms of food allergy. Describe the role of IgE during atopic reaction. 2+2+6
7. How does B-cell responds against TI and TD antigens? Write the salient features of ADCC. 7+3
8. Define immunization. Differentiate active immunization from passive immunization with specific examples. What is serotherapy and write its importance? 2+5+3
9. What is the principle of agglutination reaction and give an example of this reaction in pathological investigation? When will you perform Coomb's test? Write the importance of different types of Coombs test. 5+2+3
10. Define PAMP. Describe the cell signalling events when macrophage will recognize LPS through TLR-4. 2+8
