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PG (CBCS) M.Sc. Semester- III Examination, 2023 MEDICAL LABORATORY TECHNOLOGY PAPER: MLT 302 (IMMUNOLOGY)



Full Marks: 40

Time: 2 Hours

The figures in the right-hand margin indicate full marks. Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

	1. Answer any FOUR of the following questions:	2×4=8	
	a) Explain the concept of "self MHC restrictions".b) Write the functions of hinge part of Ig molecule.	2 2	
	c) Name the auto-antigens and auto-antibodies found in autoimmune thyroiditis.	2	
	d) Indicate the components of "MAC".	2	
	e) What do you mean by "Ig-superfamily"?	2	
	f) What is congenital type of Immunodeficiency?	2	
<u>GROUP-B</u>			
	2. Answer any FOUR of the following questions:	4×4=16	
	a) Experimentally prove that T-cells are involved in allograft rejection.b) Classify the functions of antibody based on their use in diagnostics	4	
	techniques.	4	
	c) Briefly describe the TLR-MyD88 signaling pathway.	4	
	 d) What is adjuvant? "Immune memory is an important feature of vaccin protection"- explain the statement 	e-induced	
	e) When and how does blood transfusion induce hypersensitivity reaction	n? 2	
	f) Why is immunosuppressive therapy required? Briefly describe the	different	
	strategy of immunosuppressive therapy.	1+3	
	<u>GROUP-C</u>		
	3. Answer any <u>TWO</u> of the following questions:	8×2=16	
	 a) Briefly describe the hybridoma technology for the monoclonal antibo preparation. 	ody 8	
	 b) Classify T-cells. Mention the effector responses of these different typ T-cells. 	es of 2+6	
	c) What is przozone effect? What do you mean by cross reactivity? Wri	te the	
	principle of application of competitive ELISA.	2+2+6	
	d) State the classical pathway of complement activation.	8	