

Name. _____		Printed Pages:01		
Student Admn. No.: _____				
School of Biomedical Sciences Summer Term Examination – July - August 2024 [Programme: B. Sc. Medical Biotechnology] [Semester: II] [Batch:]				
Course Title: Immunology		Max Marks: 100		
Course Code: Q1UG201T		Time: 3 Hrs.		
Instructions:	1. All questions are compulsory. 2. Assume missing data suitably, if any.			
		K Level	COs	Marks
SECTION-A (15 Marks)		5 Marks each		
1.	Define pattern recognition receptors (PRRs).			5
2.	Analyze the process of hematopoiesis. Also discuss lymphoid and myeloid progenitor cells.			5
3.	Examine the concept of self-tolerance and its importance in immune regulation.			5
SECTION-B (40 Marks)		10 Marks each		
4.	Discuss pyroptosis and inflammasomes.			10
5.	Describe the structure and function of an immunoglobulin molecule.			10
6.	Discuss the etiology, pathogenesis, and clinical manifestations of autoimmune diseases ?			10
7.	Analyze the pathways involved in the complement system activation ?			10
SECTION-C (45 Marks)		15 Marks each		
8.	Examine the therapeutic applications of monoclonal antibodies in medicine, providing examples of diseases treated with them.			15
9.	Examine different types of immunity by providing suitable examples.			15
10	Examine various components of the immune system.			15