Name				Printed Pages:01		
Student Admn. No.:						
		School of Biomedical Sciences	-			
		Summer Term Examination – July - August 2024				
[Programme: B.Sc. Medical Biotechnology] [Semester: VI) [Batch: 2021-2024]						
Course Title: Medical Biomaterials				Max Marks: 100		
Course Code: Q1UG601T				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.	What is the	ne difference between Biomaterial & Biological Materials?	K2	CO1	5	
2.	Define the elastic deformation and plastic deformation.			CO2	5	
3.	Summaries the Biomaterials-Tissue Interactions.			CO3	5	
	1	SECTION-B (40 Marks) 10 Marks ea	ich			
4.	Discuss the permanent and transient implants.			CO1	10	
5.	Elaborate the different types of Screws used for fixation of bone fragments.			CO3	10	
6.	Apply the examples of requirements for a Bone Plate implant success.			CO4	10	
7.	- Elaborate on foreign body giant cells (FBGCs).			CO4	10	
SECTION-C (45 Marks) 15 Marks each						
8.	Illustrate the Host reactions to biomaterials including Biomaterial-tissue interaction, systemic interactions and device associated complications.			CO1	15	
9.	Interpret the Fluorocarbon Polymers, Fibrous and Particulate Composites in Orthopedic Implants.			CO2	15	
10	Create an outline to use the flow perfusion bioreactor and hydrostatic pressure bioreactor.			CO5	15	