School of Basic and Applied Sciences

BioScience Summer Term September 2023

Time: 3 Hours Marks: 50

SEM V - BBBMBT5001 - Biomaterials and Tissue Engineering

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1.	Outline the major factors that influence the success of a biomaterial or an implant.	CO1	(2)
2.	Explain the Biocompatibility and its significance.	CO2	(2)
3.	Discuss the composite material.	CO3	(2)
4.	Explore the intrinsic and extrinsic factors that can affect the Bone cement properties.	CO4	(2)
5.	Explore the scope of Tissue engineering.	CO5	(2)
6.	Explore the application of biomaterials for medical purpose.	CO1	(5)
7.	Elaborate the causes of Implant-Associated Infections.	CO2	(5)
8.	Illustrate the Criteria for Judgment and Registration of Bone Cements by FDA.	CO6	(6)
9.	Explore the keywords 1. Elastic deformation 2. Plastic deformation 3. Necking and 4. Drawing.	CO3	(8)
10.	Describe the Degrees of Burn and Artificial Skins used for Burn Dressing.	CO4	(8)
11.	Illustrate the process of Tissue Engineering and 3D bioprinting techniques.	CO5	(8)