

School of Biomedical Science

Department of Biomedical Science

Mid Term Examination

Exam Date: 30 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MBAMBT3004 - Biomaterials and Tissue Engineering

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Define the skin sensitization assay K2 (2)
- 2) Define the viscoelasticity K1 (3)
- 3) Outline the properties of titanium alloy K2 (4)
- 4) Outline the synthetic and acellular skin substitutes. K2 (6)
- 5) Identify the process of Tissue Engineering and 3D bioprinting techniques. K3 (6)
- 6) Explain biocompatibility requirements of biomaterials with suitable examples. K3 (9)
- 7) Analyze the Radius-Ratio Rule K4 (8)
- 8) Analyze the sentence "Biomaterials science is a multidisciplinary field". K4 (12)

OR

Examine a procedure for scaffold implantation and its applications for Tissue Engineering. K4 (12)