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**School of Biomedical Science**

Master of Science in Medical Biotechnology

Semester End Examination - Nov 2023

Duration : 180 Minutes

Max Marks : 100

**Sem III - MBAMBT3003 - Nanobiotechnology and Biosensors**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) Tell the invention year of scanning tunneling microscopy? K1 (2)
- 2) Rephrase features of hydrothermal reaction in zeolites? K2 (4)
- 3) Illustrate deposition method use to prepare thin film NPs? K2 (6)
- 4) Construct particle size determination? K3 (9)
- 5) Construct example of a one-dimensional and two-dimensional nanostructure? K3 (9)
- 6) Explain morphological study of nanoparticles observed by microscopic techniques? K5 (10)
- 7) Elaborate role of nanofibers in wound dressings? K4 (12)
- 8) Justify Fourier Transform Infrared Spectroscopy? K5 (15)
- 9) Conclude micro and nano-sensors? K5 (15)
- 10) Elaborate transmission electron microscopy? K6 (18)