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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 - MBAMBT3002 - Molecular Therapeutics**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) Define ex vivo and in vivo studies. K1 (2)
- 2) Explain antisense therapy. K2 (4)
- 3) Categorize the types of immunological response in transplant rejections with examples. K2 (6)
- 4) Discuss the ethical issues of gene silencing technology. K3 (9)
- 5) Compare the mechanism of subunit and toxoid vaccine in details K3 (9)
- 6) Compare diagnostic and disease biomarkers. K5 (10)
- 7) Evaluate the mechanism of acute and chronic rejection mechanism in organ transplantation. K4 (12)
- 8) Elaborate Liposome and nanoparticles mediated gene delivery. K5 (15)
- 9) Categorize and discuss types of scaffolds used in tissue engineering. K5 (15)
- 10) Evaluate the current strategies of diabetes management using recombinant therapy. K6 (18)