

School of Biomedical Science

Department of Biomedical Science

Mid Term Examination

Exam Date: 27 Sep 2023

Time : 90 Minutes

Marks : 50

Sem III - MBAMBT3002 - Molecular Therapeutics

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

- 1) Enlist any two cancer lines with their applications. K2 (2)
- 2) Explain tumor cell lines. K1 (3)
- 3) Illustrate key characteristics of cell line. K2 (4)
- 4) Differentiate between viral and non-viral methods of gene transfer. K2 (6)
- 5) Explain applications of gene and cellular therapy. K3 (6)
- 6) Identify the significance of retroviruses in gene transfer technology. K3 (9)
- 7) Explain the comprehensive mechanism of gene transfer using mechanical method and their challenges. K4 (8)

- 8) Analyze the workflow for viral-mediated gene transfer. K4 (12)

OR

Describe the nano particle-mediated gene transfer method. K4 (12)