



SCHOOL OF BIO SCIENCES AND TECHNOLOGY
CONTINUOUS ASSESSMENT TEST - I
WINTER SEMESTER 2025-2026

Programme Name & Branch	: Integrated M.Sc. Biotechnology	
Course Code	: TBIT408L	
Course Name	: Gene Therapy	
Slot	: D2+TD2	
Faculty Name	: Prof. Everette Jacob Remington N	
Class Number	: VL2025260503479	
Date of Examination	: 30 th Jan 2026	
Exam Duration	: 90 minutes	Maximum Marks: 50

General instructions:

- Answer each of the following questions in detail giving suitable diagrams.
- CO – Course Outcome; BL – Blooms Taxonomy Level (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)

Q. No.	Question	Marks	CO	BL
1.	Recall the experience from the experimental gene therapy clinical trial for Jesse Gelsinger.	10	1	1
2.	Summarise the mechanisms and applications of aptamers and antisense oligonucleotides.	10	1	2
3.	Compare the following: phagocytosis, macropinocytosis, clathrin and caveolar endocytoses.	10	2	2
4.	Analyse the chemical methods of gene delivery mediated by cationic lipids and polymers.	10	2	4
5.	Examine different modifications of vectors derived from the Moloney murine leukemia virus.	10	3	4