

**VIT**Vellore Institute of Technology
(Chartered as the University under section 3 of UGC Act, 1956)

Slot: A1+TA1

School of Bio Sciences and Technology**Fall Semester 2024-2025****Continuous Assessment Test – I**

Programme & Branch : **M.Sc. (5 Year Integrated) Biotechnology**
Course Name & code: **Analytical Techniques & TBIT301L**
Class Number (s): **VL2024250104143 & VL2024250104148**
Faculty Name (s) : **Dr. Anand Prem Rajan & Dr Sudhakaran R**
Exam Duration: **90 Min.**

Maximum Marks: **50****General instruction(s):**

1. This is a closed-book exam.
2. Read the questions carefully before answering
3. Time management is important.
4. Answer all questions.
5. Give an illustration or a diagram for each answer.
6. Evaluation will be done based on clarity in answering and critical presentation.

Q.No.	Question	Max Marks	CO	BL
1.	Recall the standard operating procedures with suitable examples. Explain calibration, accuracy, and precision.	10	CO 1	BL1
2.	What are the good laboratory practices followed in your analytical techniques laboratory? How is it useful for your research and academic growth?	10	CO-1	BL-2
3.	Expound the working principle along with the functions performed by individual parts of bright field microscopy with its applications.	10	CO-2	BL -4
4.	Outline the procedure involved in the separation of nucleic acids isolated from plants.	10	CO-2	BL -5
5.	Elucidate the use of gels and ampholytes in separating proteins isolated from microbial cultures	10	CO-3	BL-2

ALL THE BEST