

**VIT[®]****Vellore Institute of Technology**
(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF BIO SCIENCES AND TECHNOLOGY
CONTINUOUS ASSESSMENT TEST -II
FALL SEMESTER 2025-2026

Programme Name & Branch: M. Sc., Integ Biotechnology
Course Code : TBIT307L
Course Name : Environmental Biotechnology
Slot : B1+TB1
Faculty Name : Dr.S. Mythili
Class Number : VL2025260106844
Date of Examination : 06.10.25
Exam Duration : 90 minutes

Maximum Marks: 50

Answer all the questions

Q. No	Question	Marks
1.	Assess whether biomining can be considered a sustainable alternative to traditional mining methods.	10
2.	How would you design a composting system for a university campus to handle food waste and garden waste efficiently?	10
3.	Compare bioaugmentation with bio stimulation in terms of cost, efficiency, and long-term sustainability.	10
4.	If a soil sample contains both cadmium and lead, how would you decide the appropriate plant species for phytoextraction?	10
5.	Analyse how variations in root exudate composition influence microbial diversity and degradation rates.	10