

**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 -I
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 : 18.08.2025
Exam Duration : 90 minutes

Maximum Marks: 50

Answer all the questions

Q. No	Question	Marks
1.	Given a polluted agricultural site with high phosphate levels, propose how you would use microbial inoculation to restore phosphorus balance.	10
2.	Compare the sensitivity and specificity of instruments used in quantitative detection of organic pollutants.	10
3.	Explain how floc formation in activated sludge aids in the removal of organic pollutants. Mention the factors affecting the process.	10
4.	A municipal wastewater plant is discharging high nitrate levels. Apply your knowledge to suggest operational changes to improve nitrogen removal.	10
5.	An industrial wastewater contains phenol. Propose a suitable microbial strain and pathway for its degradation under aerobic conditions.	10