



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
WINTER SEMESTER 2024-2025

Programme Name & Branch : B.Tech. Biotechnology
Course Code : BBIT308L
Course Name : Industrial Biotechnology
Slot : C2+TC2
Faculty Name(s) : Dr. V.Suneetha and Dr. M.Kavitha
Class Number(s) : VL2024250501676 and VL2024250501677
Date of Examination : 29.01.25
Exam Duration : 90 minutes
Maximum Marks : 50

General instruction(s):

- Answer all questions
- Draw diagram and insert table if necessary

Q. No	Question	Marks	Course Outcome (CO)	Bloom's Taxonomy (BL)
✓1.	Summarize and highlight the significant milestones which led to the evolution of fermentation technology as a field of Engineering Science.	10	1	1
✓2.	Differentiate batch, fed batch and continuous fermentation processes with five salient features.	10	1	3
✓3.	With a neat process flow sheet interpret the steps of upstream and downstream processing.	10	1	1
✓4.	Critically evaluate the various crude raw materials employed in the formulation of industrial production media as carbon and nitrogen sources.	10	2	4
✓5.	Discuss the role of anti-foam agents, growth factors, precursors, inducers and inhibitors in fermentation with examples.	10	2	2