



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of U.O. Act 1956)

SCHOOL OF BIO SCIENCES AND TECHNOLOGY
CONTINUOUS ASSESSMENT TEST -I
FALL SEMESTER 2026-2027

Programme Name & Branch	:	B. Tech - Biotechnology	
Course Code	:	BBIT202L	
Course Name	:	Biochemistry	
Slot	:	F1+TF1	
Faculty Name(s)	:	Dr. E. P. Sabina	
Class Number(s)	:	VL2026270105876	
Date of Examination	:	14.08.2026	
Exam Duration	:	90 minutes	Maximum Marks: 50

Q. No	Question	Marks
1.	What is the role of carbohydrates in our body? Classify carbohydrates with structures and functions.	10
2.	Explain in detail the structure, functions and clinical significance of any 4 mucopolysaccharides (glycosaminoglycans)	10
3.	Interpret TCA cycle is amphibolic in nature. Explain the reactions of the TCA cycle in detail.	10
4.	What is the significance of the HMP shunt in cellular metabolism? Discuss its role in NADPH generation and ribose sugar synthesis. Give the reactions in detail.	10
5.	Compare glycolysis with gluconeogenesis with reactions. List the reactions of irreversible reactions in detail.	10
