



VIT

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

REG.NO.:

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

Programme Name & Branch : BBT Biotechnology
Course Code and Course Name : BABIT101 Biochemistry
Slot(s) : E2 +TE2
Faculty Name(s) : Dr. Kuntal Pal
Class Number(s) : VL2025260107008
Date of Examination : 09.10.25
Exam Duration : 90 minutes

Maximum Marks: 50

General instruction(s):

- Answer All Questions

Q. No	Question	M
1.	Define buffer. Demonstrate the relation between pH, buffer concentration and dissociation constant.	10
2.	How do glycoproteins differ from glycolipids?	10
3.	a) Draw the Haworth projection of Mannose and Fructose. b) Demonstrate the glycosidic bond formation between glucose and fructose for sucrose formation. Why is sucrose not suitable for the reducing sugar test?	5
4.	a) Write the type of interaction that is possible between the following amino acids apart from the peptide bond. • Threonine and Aspartic acid, • Leucine and Valine, • Cysteine and Cysteine • Arginine and Glutamic acid • Tyrosine and Serine	5
	b) Draw the structure of the peptide with the sequence SKQYNFD	5
5.	Identify the role of Ramachandran plot in defining the correct structure of proteins	10
