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Sl. No.

M.Sc. I Semester Degree Examination, April/May - 2024 BIOTECHNOLOGY

Principles of Biochemistry

(NEP)

Time: 3 Hours Maximum Marks: 70

Note: Answer **any five** of the following questions with **Question No. 1 (Q1) Compulsory**, each question carries **equal** marks.

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1.	(a) (b)	Discuss in brief about enzyme kinetics. Describe MM equation.	7 7	
2.	(a) (b)	Describe the steps involved in HMP shunt pathway. Explain in brief about glycolysis pathway.	7 7	
3.	(a) (b)	Discuss briefly about degradation of proteins and amino acids. Write an account on protein folding mechanism.	7 7	
4.	(a) (b)	Explain in brief about lipoproteins- types and functions. Discuss about membrane lipids and its types.	7 7	
5.	(a) (b)	Describe the synthesis of Deoxyribonucleotides. Write an account on nitrogenous bases, nucleosides and nucleotides.	7 7	
6.	(a) (b)	Discuss and describe the types of RNA. Write a note on urea cycle and its significance.	7 7	
7.	(a) (b) (c)	Cholesterol biosynthesis. Chemical synthesis of oligonucleotides. Hydroxy fatty acids.	5 5 4	
8.	(a) (b) (c)	Oligosaccharides Ramachandran plot Classification of vitamins	5 5 4	