

Max Marks: 75

## B.Sc.(N) [Post Basic (1st Year)]

## Biochemistry & Biophysics [New Scheme-w.e.f. 2007 admission]

Time: 3 Hours

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Note:	: 1.)	Attempt all questions.	
	2.)	USE SEPARATE ANSWER BOOK FOR EACH PART.	
	3.)	The Student must write separate Q.P. Code in the spa	ice provided on the
		Title Page of the respective Answer Book.	
		SECTION-A	[38 marks]
QP (	Code:	PBN103 (Biochemistry)	
1. (i)	(a)	Mutarotation.	[2]
	(b)	Secondary Structure of Protein.	[4]
	(c)	What are Lipids? Classify them.	[4]
	(-)	OR	1.3
(ii)	(a)	Enumerate factors affecting enzyme activity.	[2]
	(b)		
		Digestion and absorption of Carbonydrates.	[4]
	(c)	Diagnostic significance of Enzymes.	[4]
2.	(0)	Digestion and absorption of Carbohydrates. Diagnostic significance of Enzymes.  How is Electrolyte balance maintained? Difference between Starch and Glycogen. ETC and sites of ATP synthesis.	[2]
	(a)	How is Electrolyte balance maintained?	[2]
	(b)	Difference between Starch and Glycogen.	[4]
	(c)	ETC and sites of ATP synthesis.	[4]
3.	Descr	ribe brief (Any <u>TWO</u> ):	[2x3=6]
	(a)	Gout (b) Anaplerotic role of TCA	■ contents step ■
	(c)	Von Gierke Disease (d) Low Density Lipoprotein	
4.		e Short Notes on any <u>FOUR</u> of the following:	[4x3=12]
٠.	(a)	Fatty Liver.	[483–12]
		Functions of Cholesterol.	
	(b)	· · · · · · · · · · · · · · · · · · ·	
	(c)	Energetics of TCA Cycle.	
	(d)	Mitochondria.	
	(e)	Glycolysis.	
	(f)	Ketone bodies and their utilisation.	
		SECTION-B	[37 marks]
QP (	Code:	PBN104 (Biophysics)	
1. (i)	(a)	Discuss radiation protection units and limits.	[2]
	(b)	What is concept of Unit and Measurements.	[4]
	(c)	What are principles of machines and friction.	[4]
	(0)		ניין
···		OR	503
(ii)	(a)	Discuss relative humidity.	[2]
	(b)	Explain principles of Forces in Nursing.	[4]
	(c)	Discuss Vector and Scalar Motion.	[4]
2.	(a)	Use of sound in Nursing.	[2]
	(b)	What are laws of Reflection.	[3]
	(c)	Discuss nature of Electricity and Voltage.	[4]
3.		ribe briefly (Any <u>TWO</u> ) :	[2x3=6]
	(a)	Pulley and Traction (b) Atmospheric and Hydrostati	
	(c)	Instruments used for detecting Ionising Radiation (d) MRI Scanni	ng.
4.	Write	e Short Notes on any <u>FOUR</u> of the following:	[4x3=12]
٦.	(a)	Pacemakers (b) Force	[473-12]
	(c)	Principles of Electronics (d) Specific Heat	
	(e)	X-Rays (f) Atomic Energy	