

Max Marks: 75

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

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

Time: 3 Hours

Note:	1.)	Attempt all questions.			
	2.)	USE SEPARATE ANSWER BOOK FOR EACH PART.			
	3.)	The Student must write separate Q.P. Code in the space provided on the			
Title Page of the respective Answer Book.					
		SECTION-A		-	[38 marks]
OP C	ode:				[50 marks]
QP Code: PBN103 (Biochemistry)					
		we also is lower			
1. (i)	(a) (b)	Write the functions of Water. List down the properties of Water.			[2]
	(c)	Explain the mechanism of fluid and electrolyte b	alanc	ce.	[4] [4]
		OR		2	
(ii)	(a)	Define Carbohydrates.		0/,	[2]
	(b)	Write the properties of Carbohydrates.	. 0	, , , , , , , , , , , , , , , , , , ,	[4]
	(c)	Explain the mechanism of blood glucose regular	Où IL	our Body.	[4]
2.	(a)	Define the Glycolysis.			[2]
	(b)	Describe the process of digestion and absorption	of P	roteins.	[4]
	(c)	Discuss role of nucleic acid in Protein Synthesis	•		[4]
3.	Descri	oe brief (Any <u>TWO</u>) :			[2x3=6]
	(a)	Composition of Urine	(b)	Functions of Hormones	
	(c)	Lipoproteins.	(d)	Disaccharides	
4.	Write	Short Notes on any <u>FOUR</u> of the following:			[4x3=12]
	(a)	Mitochondrial Oxidation.			
	(b)	Distribution of Cholesterol in Body.			
	(c). (d)	Diagnostic applications of Enzymes. Unsaturated Fatty Acids.		2	
	(e)	Glucose Tolerance Test.			
	(f)	Role of Liver in Fat Metabolism.			
SECTION-B [37 marks]					
QP Code: PBN104 (Biophysics)					
		Define Acceleration.			[2]
1. (i)	(a) (b)	Differentiate between specific gravity and centre	ofo	ravity	[2] [4]
	(c)	List the principles of Gravity.	01 5	iuvity.	[4]
OR					
(ii)	(a)	Define Work.			[2]
	(b)	Differentiate between Fundamental and Derived	Unit	s.	[4]
	(c)	Write down the principles of Machines.			[4]
2.	(a)	Define the term Specific Heat.			[2]
	(b)	Discuss the effects of heat on Matter.			[3]
	(c)	Describe the Laws of Reflection.			[4]
3.		oe briefly (Any <u>TWO</u>) :			[2x3=6]
	(a)	Measurement of Heat	(b)	Intracranial Pressure	
	(c)	Regulation of Body Temperature	(d)	Use of Ultrasound.	
4.		Short Notes on any <u>FOUR</u> of the following:	020		[4x3=12]
	(a)	Flow of electricity through Electrolytes.	(b)		sipments used in patient ca
	(c)	Defective vision and its correction. Structure of Atom.	(d)	MRI Scanning.	n annlication in access
	(e)	Structure of Atom.	(f) -	Relative numberty and i	s application in nursing.