

Max Marks: 75

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

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

Time: 3 Hours

Note:	1.)	1.) Attempt all questions.			
	2.)	.) USE SEPARATE ANSWER BOOK FOR EACH PART.			
	3.)	3.) The Student must write separate Q.P. Code in the space provided on the			
Title Page of the respective Answer Book.					
		SECTION	N-A	[38 marks]	
QP C	ode:	: PBN103 (Biochemis	try)		
1. (i)	(a)	Define Enzymes.		[2]	
200	(b)	Write the properties of Enzymes.		[4]	
	(c)	Explain the factors effecting the Enzyme ac	tivity.	[4]	
(ii)	(a)	Define Amino acids.		[2]	
(11)	(b)	List down the properties of Amino acids.		[4]	
	(c)	Explain the functions of Amino acids.		[4]	
	35.35				
2.		rentiate between:		[2.5x4=10]	
	(a)	Monosaccharides & Disacharides		c) Saturated fats & Unsaturated fats	
	(b)	Glycogenesis & Glycogenolysis	(6	d) Ribo nucleic acid (RNA) & Deoxyribo nucleic acid (DNA)	
3.		ribe briefly any (TWO)	16	[3x2=6]	
	(a)	Fibrous Proteins		c) Glucose tolerance test	
	(b)	Functions of water in human body	(d) Glycemia	
4.	Write	Write Short Notes on any <u>FOUR</u> of the following: [4x3=12]			
	(a)	Precautions for handling specimens for Enz		estimation	
	(b)	Digestion of Carbohydrates			
	(c)	functions of Potassium			
	(d)	Biosynthesis of Protein in Cell.			
	(e) (f)	Composition of Urine Polysaccharides			
	(1)	SECTION	N-B	[37 marks]	
QP Code: PBN104 (Biophysics)					
1. (i)	(a)	Define Derived Units.		[2]	
	(b)	Explain Units of Weight.		[2]	
	(c)	Discuss the effects of gravitational forces of	n Hun		
	(0)	OR	ii i iuii	lan Body. [0]	
(ii)	(a)	Define Velocity.		[2]	
X	(b)	Explain briefly about Vector and Scalar Mo	tion.	[4]	
	(c)	Write down the principles of Gravity.		[4]	
2.	(a)	Define Centre of Gravity.		[2]	
	(b)	Explain the effects of Heat on Matter.		[4]	
	(c)	Discuss the Biological effects of Light.		[4]	
3.	Describe briefly (Any Two):			[2.5x2=5]	
	(a)) Instr	ruments used for detection of Ionising Radiation	
	(b)			ntionship between energy, frequency and wave length of Light	
4.	Write	e Short Notes on any <u>FOUR</u> of the following:		[4x3=12]	
	(a)	Noise pollution and its prevention	(b)	Structure of Atom	
	(c)	CAT Scan	(d)	Regulation of Body Temperature	
	(e)	Relative Humidity	(f)	Defective Vision	