

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. USE SEPARATE ANSWER BOOK FOR EACH PART. The Student must write separate Q.P. Code in the space provided on the			
	2.)				
	3.)				
		Title Page of the respective Answ	er Boo	<u>k</u> .	
		SECTION-	-A		[38 marks]
QP C	ode:	PBN103 (Biochemist			
		***************************************		*:	
1. (i)	(a)	Define Enzymes.			* [2]
	(b)	Discuss the factors affecting Enzyme activity	v		[2] [4]
	(c)	List down the precautions for handling speci		Enzyme estimation.	[4]
		OR			1.1
(ii)	(a)	List the functions of Potassium.		^	[2]
	(b)	Write the properties of Enzymes.		10	[4]
	(c)	Explain the functions of Amino acids.	(Soll	[4]
2.	(a)	Define the Fats.	(-)		[2]
	(b)	Explain the process of biosynthesis of Fats.	0,0		[4]
	(c)	Describe the process of digestion of Fats.	5		[4]
3.	Describe brief (Any TWO):				[2x3=6]
	(a)	Functions of Lipids.	(b)	Components of Cell	
	(c)	Glycogenesis.	(d)	Biological Importan	
4.	Write	Short Notes on any <u>FOUR</u> of the following:			[4x3=12]
	(a)	Uric Acid Formation.			[12]
	(b)	Role of Insulin.			
	(c)	Hyperglycemia.			
	(d)	Polysaccharides.			&
	(e) (f)	Utilisation of Ketone Bodies. Classification of Hormones.			
	(.)				1222 0 68
	4 44 5	SECTION	200		[37 marks]
	ode:	PBN104 (Biophysic	<u>es)</u>		
1. (i)	(a)	List the Units of Weight.			[2]
	(b)	Differentiate between Speed and Velocity.			[4]
	(c)	Explain briefly about the types and transform	nation of	Energy.	[4]
(::X	(0)	OR Define Electronics.			(2)
(ii)	(a) (b)	List down the principles Electronics.			[2]
	(c)	Explain the Units of Current and Resistance.	8		[4] [4]
2.	(a)	Define Atmospheric Pressure.			
2.	(b)	Discuss the application of Osmotic Pressure	in Nursi	nσ	[2] [3]
	(c)	Discuss the relationship between Frequency and Wavelength of Light.			[4]
3.		Describe briefly (Any TWO):			
	(a)	Radioactivity.	(b)	Defibrillation.	[2x3=6]
	(c)	Uses of Ultrasound.	(d)	Frequency and Intens	sity of Sound.
4.		Short Notes on any <u>FOUR</u> of the following:		. 192. de 2 fest - 1 00 magnete (- 1 0 magnete (- 170 february) (17 e 17 fe	[4x3=12]
۹.	(a)	Measurement of Ocular Pressure.	(b)	Vocalization and He	
	(c)	Electromagnetism.	(d)	Flow of Electricity in	
	(e)	ECG.	(f)		Units and their Limits