

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]	
QP C	ode:	PBN103 (Biochemistry)		
		121010111111111111111111111111111111111		
1. (i)	(a)	Draw a well labelled diagram of Eukaryotic cell showing different organelle	es. [2]	
1. (1)	(b)	Malabsorption Syndrome.	[4]	
	(c)	Factors responsible for regulation of water.	[4]	
(::)	(a)	OR Anion Con	[2]	
(ii)	(a) (b)	Anion Gap. Classifications of Proteins.	[2] [4]	
	(c)	Essential Fatty Acids.	[4]	
	(-)	Classifications of Proteins. Essential Fatty Acids. Stereoisomerism. Cori's Cycle.		
2.	(a)	Stereoisomerism.	[2]	
	(b)	Cori's Cycle.	[4]	
	(c)	Electron Transport Chain (ETC) and its inhibitors.	[4]	
3.		ibe brief (Any <u>TWO</u>):	[2x3=6]	
	(a)	Amphibolic role of Tri- Carboxylic Acid (TCA) (b) Fatty Liver Plasma Proteins and their functions. (d) VLDL		
693	(c)	20		
4.		Short Notes on any <u>FOUR</u> of the following:	[4x3=12]	
	(a) (b)	Importance of Cholesterol. Glycogen Storage Disease.		
	(c)	Isoelectric pH.		
	(d)	Regulation of Blood Glucose.		
	(e)	Non-protein Nitrogenous Compounds.		
	(f)	Role of liver in fat metabolism.		
		SECTION-B	[37 marks]	
QP C	ode:	PBN104 (Biophysics)		
1. (i)	(a)	SI units.	[2]	
	(b)	Difference between Vector and Scalar Motion.	[4]	
	(c)	Discuss application of Forces in Nursing.	[4]	
		OR		
(ii)	(a)	Specific gravity.	[2]	
	(b) (c)	Heat Sterlisation. Relationship between Energy, Frequency and Light.	[4]	
-			[4]	
2.	(a)	Effect of gravitational Force on Human Body.	[2]	
	(b) (c)	Principles of Body Mechanics. Effect of Heat on Matter.	[3] [4]	
3.	Descri (a)	ibe briefly (Any TWO): Arterial and Venous Pressure (b) EEG	[2x3=6]	
	(a) (c)	Pacemakers (d) Role of Light in therapy.		
4			[42_10]	
4.	(a)	Short Notes on any <u>FOUR</u> of the following: Radiation protection and its limitations (b) Flow of electricity in Sol	[4x3=12]	
	(c)	Electromagnetism (d) Importance of temperatur		
	(e)	Structure of Atom (f) Radioisotopes		