QP Code: MLB201

Max Marks: 80

[2]

M.Sc. (M.L.T.) Biochemistry

(BF/2023/12)

General Biochemistry and Metabolism of Biomolecules [Paper-I]

Time: 3 Hours

Note:		Section A and B:- Question No. <u>1&2</u> are Compulsory and attempt any four question out of Question No. <u>3,4,5,6,7</u>				
	2.	3. NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED				
	4. The Student must write Q.P. Code in the space provided on the Title					
Page of the Answer Book.						
Section-A						
Q. 1.	Discuss urea cycle in detail.		le in detail.		[10]	
Q. 2.	Short notes		a.	Utilization of Ketone bodies	[5]	
			b.	Glycogen synthesis	[5]	
Q. 3.	Short notes:		a.	Digestion of carbohydrates	[3]	
			b.	Rate limiting step of fatty acid synthesis	[2]	
Q. 4.	Short notes:		a.	Hormonal regulation glycolysis	[3]	
			b.	Refsum disease	[2]	
Q. 5.Short notes: a.			a.	Differences between carbamoyl synthetase I and c	arbamoyl	
				synthetase II enzymes.	[3]	
			b.	Cystinuria	[2]	
Q. 6.	Sho	ort notes:	a.	Secondary structure of RNA	[3]	
			b.	Molarity	[2]	
Q. 7.	Sho	ort notes:	a.	Gout	[3]	
			b.	Ultracentrifugation Section-B	[2]	
0 1	Dia	auss maahani	sm of blood		[10]	
Q. 1. Q. 2.	Short notes:			od glucose regulation in detail. [10] Differentiate hepatic glycogenolysis from muscle glycogenol		
Q. 2.	Dire	or notes.		2 merentatie nepatie gryeogeneryoto from masere g	[5]	
			b.	Fatty acid synthase a multifunctional enzyme	[5]	
Q. 3.	Sho	ort notes:	a.	Three special products derived from tryptophan	[3]	
			b.	Rate limiting step of heme synthesis	[2]	
Q. 4.	Sho	ort notes:	a.	Substrates of gluconeogenesis.	[3]	
			b.	Fructosuria	[2]	
Q. 5.	Short notes:		a.	Laboratory findings in hepatic and post hepatic jar		
			b.	Maple syrup urine disease	[3] [2]	
Q. 6.	Sho	ort notes:	a.	Types of RNA	[3]	
			b.	Functions of cholesterol in the body	[2]	
Q.7.Short notes:			a.	Cholelithiasis	[3]	

Density gradient centrifugation

b.