First Year M.Sc. MLT Degree Regular/Supplementary Examinations October 2023 (Biochemistry)

Paper IV - General Physiology, Nutrition & Mineral Metabolism

Time: 3 hrs.		Max. marks: 100
•	Answer all questions to the point neatly and legibly • Do not leave any blank pa answers • Indicate the question number correctly for the answer in the margi Answer all parts of a single question together • Leave sufficient space between Draw table/diagrams/flow charts wherever necessary	n space
Essays:		(10x10=100)
1.	Explain phase 1 detoxification reactions with examples.	
2.	Discuss the nutritional importance of lipids. Add a note on PUFA.	(6+4)
3.	Write the biochemical role of zinc and its deficiency manifestations.	(6+4)
4.	Describe in detail the digestion of proteins. Add a note on Meister cycle.	(6+4)
5.	Describe in detail the absorption, transport and storage of iron in our body	y. (4+4+2)
6.	Outline the extrinsic pathway of clotting. Add a note on clotting disorders	(5+5)
7.	Describe the process of lipid peroxidation. Classify antioxidants and write	their uses. (6+4)
8.	Classify the causes of anemia. Write in detail the lab findings in different t	types of anemia (3+7)
9.	What are the factors affecting Oxygen dissociation curve. Explain in detai its mechanism.	()
10. Name the functional unit of muscle and outline its structure. Describe the chemistry of		

muscle contraction
