Time 3 hrs

Attempt two question from the each Section A and B and the section C is compulsory

MM: 52 Section A 1 Write a note on Handerson Hasselbalch equation Write a note on buffers and their biological importance b 2 Write a note on amino acid sequencing of polypeptides a b Explain Ramachandran plot 3 4 Briefly explain the 8 1. Denaturation of proteins; 2. Forces stabilizing structure and shape of proteins What is Polysaccharides? Give a brief account on Chitin and starch 4. 8 Section B Draw the structure of Fluid Mosaic model and discuss its significance 5 8 Elaborate the biosynthesis of phosphoglycerides 6 7 8 Discuss in detail the tricarboxylic acid cycle. Drive Michaelis-Menten equation. Discuss its significance 8 8 8 Section C Explain the following (2 x 10) 9 20 i. Differentiate between α - helix and β - helix ii. Protein folding iii. amylopectin iv. Glycosidic bonds v. Amylopectins vi. Lipoproteins vii. Sphingmyelins viii. Phosphoglycerides ix. Deamination and transamination x. Enzyme inhibitors