



2022  
M.Sc. (Microbial Biotechnology)  
First Semester  
MBT-104: Microbial Biochemistry and Enzymology

Exam Code: 0469  
Sub. Code: 3084

Time allowed: 3 Hours Max. Mark: 60

NOTE: Answer any questions in MC including Question No. 26 (100%) which is compulsory and attempt one question each from Ques I - IV.

**UNIT - I**

- I. a) Describe the types of different classes of Carbohydrates with example and their function.  
b) Discuss the following:-  
(i) Relationship between Free energy and enthalpy  
(ii) Ramachandran plot (05.5)
- II. a) Discuss the conformation of proteins and the relevance of domains and motifs.  
b) Write notes on:-  
(i) Henderson-Hasselbalch equation & buffers  
(ii) Vitamins (05.5)

**UNIT - II**

- III. a) Describe the  $\beta$ -oxidation of Fatty acid. Also calculate the energy yield of this process.  
b) Is Gluconeogenesis a reverse pathway of Glycolysis? Give reasons to support your answer. (05.5)
- IV. a) Describe the Citric Acid Cycle during aerobic respiration indicating the reactants, enzymes, products & reduced coenzymes.  
b) Discuss (i) Phases & Benefits of HMP (ii) Fates of Cholesterol. (05.5)

**UNIT - III**

- V. a) Discuss the following: Transamination, Decarboxylation and the fate of amino group.  
b) Write notes on:  
(i) Aerobic respiration  
(ii) Carbon skeletons of amino acids (05.5)
- P.T.O.

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(2)

- VI. a) The amino acids are synthesized from intermediates of various metabolic pathways. Discuss.  
b) How do electrons move through the electron transport chain to generate energy? Describe with illustrations. (05.5)

**UNIT - IV**

- VII. a) Discuss the Michaelis-Menten Enzyme kinetics. Which factors influence kinetics?  
b) Describe: (i) Industrial applications of enzymes (ii) Advantages of Multi-substrate complexes. (05.5)



# First Sem Msc Biochemistry Question Paper

**Clifford Lane**



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