

QP Code: 102383

Reg. No.....

**First Year M.Sc. MLT Degree Supplementary Examinations March 2024
(Biochemistry)**

Paper II - Enzymology, Metabolism and Inborn Errors of Metabolism

Time: 3 hrs.

Max. marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays:

(10x10=100)

1. Explain the features of porphyrias with regulation of heme synthesis. Add a note on acute intermittent porphyria
2. What is competitive inhibition Explain with two examples of therapeutic significance
3. Explain galactose metabolism. Add a note on the metabolic errors associated with it
4. Explain briefly the cholesterol synthesis. Add a note on the role of cholesterol in atherosclerosis
5. Describe the therapeutic significance of enzymes
6. Explain glycogen synthesis. Add a note on its regulation
7. Describe electron transport chain with a schematic diagram
8. Name some inborn errors of metabolism. Add a note on the methods of detection
9. Explain briefly the steps of catecholamine synthesis.
10. Describe the de novo synthesis of pyrimidines. Add a note on its regulation and its metabolic disorders
