

QP Code: 102383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
October 2023
(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. Discuss in detail about the enzymes commonly studied for diagnosis of liver diseases.
Add a note on the assay method of any three.
2. Explain the various glycogen storage disorders.
3. Describe the de novo synthesis of cholesterol and its regulation.
4. Discuss in detail the metabolism of chylomicrons and low density lipoproteins.
5. Discuss the factors affecting enzyme activity
6. Briefly explain the metabolic functions of glycine. Add a note on metabolic errors in relation to glycine.
7. Discuss in detail the de novo synthesis of purine nucleotides.
8. Discuss the steps involved in gluconeogenesis when alanine is the substrate.
9. Discuss the composition of cerebrospinal fluid in health and various diseases.
10. Discuss the urinary findings in various types of jaundice.
