

QP Code: 102383

Reg. No.....

**First Year M.Sc. MLT Degree Regular/Supplementary Examinations
April 2021
(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 significance of UDP glucuronic acid and how it is formed.
2. Describe ATP synthase complex. Add a note on uncouplers.
3. What are the mechanisms of ammonia detoxification
4. Enumerate the therapeutic significance of enzymes.
5. What are anaplerotic reactions. Give suitable examples
6. Describe the catabolism of purines. Add a note on gout
7. Discuss the formation and fate of VLDL
8. Describe the steps of beta oxidation of a 16 carbon fatty acid. Add a note on the energetics involved.
9. Discuss any two screening procedures for metabolic disorders of amino acids.
10. Describe in detail the catabolism of hemoglobin.
