

**QP Code: 102383**

**Reg. No.....**

**First Year M.Sc. MLT Degree Supplementary Examinations April 2019  
(Biochemistry)**

**Paper II - Enzymology, Metabolism and Inborn Errors of Metabolism**

**Time: 3 hrs.**

**Max. marks: 100**

- *Answer all questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(10x10=100)**

1. Discuss the essential amino acids. Add a note on nitrogen balance.
2. Describe the beta oxidation of fatty acids.
3. Elaborate on factors affecting enzyme action.
4. Give an outline of glycogen metabolism.
5. Describe the formation of urea in our body.
6. Define and classify lipoproteins. Add a brief note on LDL metabolism.
7. Give an outline of biosynthesis of purine nucleotides.
8. Discuss any four genetic disorders associated with enzyme abnormalities.
9. Elaborate on cerebrospinal fluid analysis.
10. Discuss the formation of hemoglobin in our body.

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