

QP Code: 102383

Reg . No.....

**First Year M.Sc. MLT Degree Examinations November 2017  
(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. Describe the genetic defect in Hb-S. What are the relevant tests done in arriving at a diagnosis.
2. Describe the metabolism of ketone bodies. What are the biochemical findings in diabetic ketoacidosis
3. Describe the synthesis of bile acids from cholesterol
4. Classify phospholipid and enumerate their functions
5. Outline the formation of any two specialized compounds from glycine.
6. Discuss the site specific inhibitors of oxidative phosphorylation.
7. Discuss the amphibolic role of TCA cycle.
8. Describe the steps in anaerobic glycolysis. Add a note on its regulation.
9. Classify porphyrias. Describe acute intermittent porphyria.
10. Enumerate the fates of pyruvate.

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