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Q.P. Code: 105001 Reg. no.: First Professional MBBS Degree Examinations, August 2014 **BIOCHEMISTRY-PAPERI** Time: 3 Hours **Total Marks: 50** Answer all questions Draw diagrams wherever necessary **Essay** (10)1. Define beta oxidation. Explain the reactions of beta oxidation of palmitic acid.Add a note on its energetics (1+6+3=10)Short essays (2x5=10)2. Tricarboxylic Acid Cycle 3. Important compounds derived from glycine. **Short notes** (5x3=15)4. Enumerate three types of enzyme specificity. 8. Uncouplers of oxidative phosphorylation

Answer briefly Lactose intolerance. (5x2=10)9. Active methionine 10. Biological action of glutathione 11. Hartnup's disease 12. Clinical significance of ALP 13. Alkaptonurea Give precise answers (5x1=5)14. Name the deficient enzyme in Niemann Pick disease 15. Mention the normal level of serum creatinine 16. What is iso-electric pH 17. Mention any two key enzymes of glycolysis 18. Name four lipotropic factors