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Code: 105001 Reg. no.: First Professional MBBS Degree Examinations, August 2012 **BIOCHEMISTRY-PAPERI** Time: 3 Hours **Total Marks: 50** Answer all questions Draw diagrams wherever necessary (10)**Essay** 1. Mention the reactions by which glycine is synthesized and catabolized. Add a note on the specialized products formed and mention the disorders associated with glycine metabolism. (2+6+2=10)(2x5=10)Short essays 2. Fatty acid synthase complex. 3. Describe the reactions of urea cycle. Discuss the interrelationship between urea cycle and citric acid cycle. **Short notes** (5x3=15)

- 4. Mention three examples of transmethylation reactions.
- 5. Ketosis
- 6. Secondary structure of proteins.
- 7. Importance of glutamine.
- 8. Covalent modification.

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- 9. Hartnup's disease.
- 10. Classification of glycolipids.
- 11. Uncouplers of oxidative phosphorylation.
- 12. Functions of cholesterol.
- Significance of HMP shunt

Give precise answers (5x1=5)

- 14. Enzyme defect in maple syrup urine disease.
- 15. Epimer of glucose.
- 16. Normal level of serum albumin.
- 17. Name the biochemical test for phenylketonuria.
- 18. Important product of Rapaport- Leubering cycle in RBC