

Code: 105001

Reg. no.:

First Professional MBBS Degree Examinations, August 2012

BIOCHEMISTRY- PAPER I

Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay

(10)

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)

Short essays

(2x5=10)

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.

Answer briefly

(5x2=10)

9. Hartnup's disease.
10. Classification of glycolipids.
11. Uncouplers of oxidative phosphorylation.
12. Functions of cholesterol.
13. 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
