

Q.P. Code: 105001

Reg. no.:

First Professional MBBS Degree Examinations, August 2012

BIOCHEMISTRY- PAPER I



Time: 3 Hours

- 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 Rapoport Luebering cycle in RBC
