

Q.P. Code: 105001

Reg. no.: .....

**First Professional MBBS Degree Supplementary Examinations -  
February 2016****BIOCHEMISTRY- PAPER I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

**Essay****(10)**

1. Mention the normal blood urea level. Add a note on formation & detoxification of ammonia and the related disorders. (1+5+4= 10 )

**Short essays****(2x5=10)**

2. Glucose transporters
3. Functions of phospholipids

**Short notes****(5x3=15)**

4. Brown adipose tissue
5. Bile salts
6. Lipotropic factors
7. Pyruvate dehydrogenase complex
8. Isoenzymes

**Answer briefly****(5x2=10)**

9. Mention the rate limiting step and the inhibitors of cholesterol synthesis
10. Enzyme defect and abnormal metabolites in phenyl ketonuria
11. Carnitine deficiency
12. Rapaport Leubering pathway
13. Specialized products of tryptophan

**Give precise answers:****(5x1=5)**

14. Mention the features of classic galactosemia
15. Site of oxidation of very long chain fatty acids
16. Name the enzyme defect in Gaucher's disease
17. Mention the enzyme is elevated in alcoholic cirrhosis
18. Name two uncouplers of oxidative phosphorylation

\*\*\*\*\*