

**First Professional MBBS Degree Supplementary Examinations  
February 2017****BIOCHEMISTRY- PAPER I****Time: 3 Hours****Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

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

1. Explain the oxidation of palmitate in mitochondria. Describe how the process is regulated. Mention the number of high energy phosphate bonds generated in palmitate oxidation (5+3+2=10)

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

2. Explain the digestion and absorption of proteins
3. What are enzymes. Explain briefly the factors affecting the velocity of enzyme catalyzed reactions.

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

4. Mucopolysaccharides
5. Lipoproteins
6. Phenylketonuria
7. Glucose transporters
8. Trans methylation reactions

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

9. Uncouplers
10. Glutathione
11. Albinism
12. Galactosemia
13. Cori's cycle

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

14. Name the substrates for gluconeogenesis
15. Normal blood level of urea and glucose
16. Name the important compounds formed from glycine
17. Therapeutic uses of enzymes
18. Benedict's test

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