



Q.P. Code: 105001

**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
