

**Q.P. Code: 105001**

**Reg. No.: .....**

**First Professional MBBS Degree Supplementary Examinations  
March 2021**

**Biochemistry – Paper I**

**Time: 3 Hours**

**Total Marks: 50**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(10)**

1. What is  $\beta$  oxidation. Describe the process of  $\beta$  oxidation of even chain fatty acids with energetics. (1+7+2)

**Short essays**

**(2x5=10)**

2. Glycogenolysis and its regulation
3. Metabolism of tryptophan

**Short notes**

**(5x3=15)**

4. Rapaport Leubering pathway
5. Name three glycosaminoglycans and their functions
6. Trans methylation reactions
7. Diagnostic importance of enzymes
8. Reverse cholesterol transport

**Answer briefly**

**(5x2=10)**

9. Suicide Inhibition
10. Compounds derived from cholesterol
11. Von Gierke's disease
12. Protein denaturation
13. Epimers

**Give precise answers:**

**(5x1=5)**

14. Enzyme defect in Homocystinuria
15. Renal glycosuria
16. Glycemic index
17. Clinical importance of acid phosphatase and alkaline phosphatase
18. FIGLU excretion test

\*\*\*\*\*