

**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

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