



**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 β oxidation. Describe the process of β 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
