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## First Year M.Sc Medical Physiology Degree Regular/Supplementary Examinations September 2021

## (FOUNDATION COURSE)

## Paper II - Biochemistry

Time: 3 hrs Max. Marks: 70

- 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: (2x10=20)

- How phenylalanine is metabolized in our body. Add a note on inborn errors related to phenylalanine metabolism. (6+4)
- 2. What are the different steps involved in eukaryotic translation? Add a note on post-translational modifications (6+4)

Short Notes: (6x5=30)

- 3. Significance of HMP shunt pathway
- 4. Structure of biomembranes
- 5. Complications of diabetes mellitus
- 6. Steps of beta oxidation
- 7. Metabolic acidosis
- 8. Biochemical functions of vitamin D

Answer briefly: (10x2=20)

- 9. Competitive inhibition
- 10. Cori's cycle
- 11. Essential fatty acids
- 12. Congenital erythropoetic porphyria
- 13. Iron absorption
- 14. Creatinine clearance
- 15. Lipotropic factors
- 16. Anion gap
- 17. Tumor suppressor genes
- 18. Lesch Nyhan syndrome

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