

QP Code: 201020

Reg. No.....

**Second Year B.Sc. Medical Biochemistry Supplementary Examinations
April 2019**

Metabolism I - Carbohydrates, Lipid & Amino Acid Metabolism

(2014 Scheme)

Time: 3 Hours

Total Marks: 80

- **Answer all the questions**
- **Draw diagrams wherever necessary**

Essay

(2x15=30)

1. Discuss synthesis and breakdown of triglycerides in adipose tissue. Add a note on fatty liver and lipotropic factors
2. Describe the formation and disposal of ammonia in the body. Add a note on hyperammonemias.

Short Essay

(2x10=20)

3. Gluconeogenesis
4. Amphibolic role of TCA cycle

Short Notes

(4x5=20)

5. Absorption of glucose from gut
6. Galactosemia
7. ATP synthase complex
8. Biological functions of eicosanoids

Answer Briefly

(5x2=10)

9. Reducing equivalents
10. What are polyamines
11. Write one reaction involving one carbon addition.
12. Importance of including PUFA in the diet
13. Causes of ketosis
