Second Year B.Sc. Medical Biochemistry Supplementary Examinations October 2018 Metabolism I - Carbohydrates, Lipid & Amino Acid Metabolism

(2014 Scheme)

- Answer all the questions
- Draw diagrams wherever necessary
- 1. Explain the steps of electron transport chain, its inhibitors, chemiosmotic theory and energetics.
- 2. Describe the reactions of transamination, oxidative deamination, urea cycle, hyperammonemias and regulation of urea cycle.

Short Essay

Time: 3 Hours

Essay

- 3. HMP shunt pathway
- 4. Metabolism of adipose tissue with reference to storage and breakdown of triacylglycerol and its regulation

Short Notes

- 5. Outline the synthesis of cholesterol
- 6. Glucogenic and ketogenic amino acids and basis for the classification
- 7. Metabolism of fructose and the metabolic disorders associated with it.
- 8. Fatty acid chain elongation

Answer Briefly

- 9. Pentosuria
- 10. Pasteur effect
- 11. Inborn error of branched chain amino acids metabolism
- 12. Utilisation of ketone bodies
- 13. Oligomycin, its significance and site of action

QP Code: 201020

Total Marks: 80

Reg. No.....

(2x10=20)

(5x2=10)

(2x15=30)

(4x5=20)