

QP Code: 201020

Reg. No.....

Second Year B.Sc. Medical Biochemistry – October 2016

Metabolism - I - Carbohydrates, Lipid & Amino Acid Metabolism

Time: 3 Hours

Total Marks: 80

- Answer all the questions
- Draw diagrams wherever necessary

Essay

(2x15=30)

1. Mention the reactions by which tyrosine is synthesized and catabolized. Add a note on the specialized products formed and mention the disorders associated with tyrosine.
2. Explain the reactions of glycogenesis and glycogenolysis in flow diagram. Describe how these processes are regulated. Name any two glycogen storage disorders.

Short Essay

(2x10=20)

3. Metabolism of adipose tissue.
4. Digestion and absorption of carbohydrate.

Short Notes

(4x5=20)

5. Fatty acid synthase complex.
6. What is active methionine. Explain transmethylation reactions with suitable examples.
7. Transamination.
8. Essential fatty acids.

Answer Briefly

(5x2=10)

9. Redox potential.
10. What are lipotropic factors. Name any two lipotropic agents.
11. Biological action of glutathione.
12. Lactose intolerance.
13. Pasteur effect.
