

QP CODE: 211020

Reg. No:

Second Year B.Sc Medical Biochemistry Degree Examinations October 2018

Paper VI - Metabolism 1

(Carbohydrate, Lipid & Amino Acid Metabolism)

(2016 Scheme)

Time: 3 hrs

Max Marks: 100

- Answer All Question
- Draw diagrams wherever necessary

Long Essays

(2x15=30)

1. What is gluconeogenesis. Describe the steps, energetics and regulation of gluconeogenesis.
2. How proteins are digested and absorbed.

Short Essays

(2x10=20)

3. How ketone bodies are formed and utilized in the body. Describe diabetic ketoacidosis.
4. How various biologically important compounds are formed from tyrosine. Describe the inborn errors related to tyrosine metabolism.

Short Answer

(6x5=30)

5. Omega oxidation
6. Lipid storage disorders
7. Hyperammonemias
8. Fate of pyruvate
9. Glycogenolysis
10. HMP shunt pathway.

Comment on

(10x2=20)

11. Essential fatty acids
12. Very long density lipoprotein
13. Bile salts
14. Gaucher's disease
15. Functions of cholesterol
16. Cori's cycle
17. Branched chain amino acids
18. Nitric oxide
19. Trans deamination
20. Glutathione
