

QP CODE: 207006 (OLD SCHEME)

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations February 2017

**Applied Biochemistry & Molecular Biology
(2010 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Explain glycolysis and gluconeogenesis. (5+5)
2. What are lipids. Classify them and explain the metabolism of cholesterol. (2+2+6)
3. Explain the catabolism of tryptophan and phenylalanine and their metabolic disorders. (5+5)

Short notes

(14x5=70)

4. Define carbohydrates and classify them.
5. Structure of t-RNA
6. Electron transport chain.
7. Ketone bodies.
8. Essential amino acids.
9. Production of ATP.
10. Diagnostic applications of enzymes.
11. Functions of various cell organelles with a neat labelled cell diagram.
12. What are sphingolipids. Write its significance.
13. Diabetic mellitus.
14. Biological role of nucleosides and nucleotides.
15. DNA replication
16. Write a note on gene expression.
17. What are enzymes. Classify them.
