

**Second Year B.Pharm Degree Supplementary Examinations
December 2017
Applied Biochemistry & Molecular Biology
(2010 Scheme)**

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Describe in detail about glycogen metabolism. Add a note on glycogen storage disorders
2. Describe in detail urea cycle and its metabolic disorders
3. Describe in detail cholesterol biosynthesis. Add a note on familial hypercholesterolemia

Short notes

(14x5=70)

4. Essential fatty acids
5. Golgi apparatus
6. HMP Shunt and its significance
7. ELISA
8. Enzymes of clinical importance
9. Synthesis and Significance of Creatine
10. Factors affecting enzyme activity
11. DNA damage and repair mechanism
12. Porphyria
13. Oxidative phosphorylation
14. Catabolism of purine nucleotides
15. Gene therapy
16. Regulation of blood glucose in postprandial state
17. Transamination
