

Second Year B.Pharm Degree Supplementary Examinations - July 2016

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

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

(3x10=30)

1. Explain in detail about beta oxidation of fatty acids. Add a note on its energetic and regulation
2. Discuss in detail about DNA replication with suitable illustration. Add a note on the various DNA repair mechanisms
3. Describe urea cycle in detail and add a note on its disorders

Short notes

(14x5=70)

4. Products formed from tyrosine
5. Glycogen storage diseases
6. Genetic code
7. Enzymes of clinical importance
8. Amphibolic role of citric acid cycle
9. Phenylketonuria
10. Bile acids
11. Inhibitors of electron transport chain
12. Fluid mosaic model of plasma membrane
13. Porphyria
14. Polymerase chain reaction
15. HMP shunt and its significance
16. High energy compounds
17. Anaerobic glycolysis
