

Second Year B.Pharm Degree Supplementary Examinations - July 2015

**APPLIED BIOCHEMISTRY & MOLECULAR BIOLOGY****Time: 3 Hours****Total Marks: 100**

- Answer all Questions.
- Draw diagrams wherever necessary.

**Essay****(3x10=30)**

1. Discuss in detail about gluconeogenesis. Add a note on its regulation
2. Explain in detail about the classification of enzymes with suitable examples. Add a note on factors influencing enzyme activity
3. Describe in detail cholesterol biosynthesis. Add a note on familial hypercholesterolemia

**Short notes****(14x5=70)**

4. Salvage pathway of purine and pyrimidines
5. Diabetic keto acidosis
6. Organization of electron transport chain
7. Recombinant DNA
8. Alkaptonuria
9. Diabetes mellitus
10. Types of DNA damage and repair mechanisms
11. Lysosomes and mitochondria
12. Phospholipids and its functions
13. Types of RNA and its functions
14. Transamination and its importance
15. Lac operon
16. Jaundice
17. Classify proteins with suitable examples

\*\*\*\*\*