

**QP CODE: 207006 (OLD SCHEME)**

**Reg. No: .....**

**Second Year B.Pharm Degree Supplementary Examinations July 2018**

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

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Draw diagrams wherever necessary.

**Essay**

**(3x10=30)**

1. Discuss  $\beta$ -oxidation of fatty acids. Add a note on its energetic and regulation
2. Give outlines of denovo synthesis of purine nucleotides. Add a note on gout
3. Describe citric acid cycle and explain the amphibolic role the cycle

**Short notes**

**(14x5=70)**

4. Phospholipids
5. Mucopolysaccharides
6. High energy compounds
7. Restriction fragment length polymorphisms
8. Biologically important peptides
9. Factors affecting enzyme activity
10. Phenylketonuria
11. Jaundice
12. Replication of DNA
13. Significance of HMP shunt pathway
14. Bile acids
15. Regulation of blood glucose in fasting state
16. Types and effects of mutations
17. Structure of cell membrane

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