QP CODE: 207006 (OLD SCHEME)

Second Year B.Pharm Degree Supplementary Examinations July 2017

Applied Biochemistry & Molecular Biology (2010 Scheme)

Time: 3 Hours

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay

- 1. Explain the pathway involved in the oxidation of glucose to pyruvate.
- 2. What are enzymes. Explain the influence of substrate concentration on enzyme activity with Michaelis plot. (2+8)
- Define lipids. Name the essential fatty acids. Explain the pathway of beta-oxidation of palmitic acid. (2+2+6)

Short notes

- 4. Transcription and translation
- 5. What are amino acids and how are they classified
- 6. Structure and functions of chromosomes.
- 7. Biosynthesis of pyrimidine nucleotides.
- 8. Mechanism of enzyme action.
- 9. Metabolism of sulphur containing amino acids.
- 10. Catabolism of phenylalanine and its metabolic disorders.
- 11. Eicosanoids.
- 12. HMP Shunt.
- 13. Atherosclerosis.
- 14. Oxidative phosphorylation.
- 15. Synthesis and significance of histamine.
- 16. Redox potential.
- 17. Transport across cell membrane

ology

Total Marks: 100

(14x5=70)

(3x10=30)

Reg. No: