QP CODE:207006 Reg.No:

Second Year B.Pharm Degree Examinations - October 2012

APPLIED BIOCHEMISTRY & MOLECULAR BIOLOGY

Time: 3 Hours Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary.

Essay (3x10=30)

- 1. Explain the term deamination. Discuss urea cycle with its significance.
- 2. Define coenzymes. Classify them with examples and explain the enzymatic action of folic acid and thiamine.
- 3. Describe the reactions involved in oxidation of fatty acids.

Short notes (14X5=70)

- 4. Biological significance of amino acids.
- 5. Explain gluconeogenesis and its significance.
- 6. Structure and functions of cholesterol.
- 7. Describe IUB classification of enzyme.
- 8. Describe the structure and function oft-RNA.
- 9. Compare substrate level phosphorylation with oxidative phosphorylation.
- 10. Ketogenesis.
- 11. Classify amino acids with examples.
- 12. Inhibitors and uncouplers of ETC.
- 13. List out the factors affecting enzyme activity and describe any two factors.
- 14. Discuss the biosynthesis and biochemical significance of creatinine.
- 15. Explain about semi conservative replication of DNA.
- 16. Explain diabetes mellitus and any two glycogen storage diseases.
- 17. Explain the biosynthesis of any one purine nucleotide.
