Second Year B.Pharm Degree Supplementary Examinations - April 2014

APPLIED BIOCHEMISTRY & MOLECULAR BIOLOGY

Time: 3 Hours

- Answer all Questions.
- Draw diagrams wherever necessary. ٠
- Essay
- 1. Define glycolysis. Explain the reactions involved and add a note on its bioenergetics.
- 2. Explain the biosynthesis and degradation of cholesterol.
- 3. Describe the steps involved in the initiation of protein synthesis and add a note on its regulation.

Short notes

- 4. Explain briefly about urea cycle and its significance.
- 5. What is active site of an enzyme. List out the characteristics and describe the rigid template model.
- 6. Explain the DNA damage and repair mechanism.
- 7. What is deamination. Describe the reaction and its significance.
- 8. Explain briefly translation.
- 9. Explain the uronic acid pathway with its significance.
- 10.What is heme? Explain the metabolism of heme.
- 11. Explain about ETC.
- 12. Biosynthesis of purine nucleotides.
- 13. Explain the various metabolic actions of insulin.
- 14. Bioconversion of polysaccharides to glucose-1-phosphate.
- 15. Explain catabolism of phenylalanine and add a note on its metabolic disorders.
- 16. Beta oxidation of unsaturated fatty acids.
- 17. Explain the molecular methods of disease diagnosis.

QP CODE:207006



(3x10=30)

(14x5=70)

Reg.No:

Total Marks: 100