

Second Year B.Pharm Degree Examinations - July 2016

Applied Biochemistry & Molecular Biology

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What are essential amino acids. Describe in detail the metabolism of tyrosine in the human body
2. Explain with schematic representation of the overall steps involved in the citric acid cycle
3. What is ketogenesis. Explain the production and utilization of ketone bodies in the body

Short notes

(14x5=70)

4. Energy rich compounds and its significances
5. Kinetics of enzyme
6. Substrate level phosphorylation with two examples
7. Components of electron transport chain indicating sites of phosphorylation
8. Genetic disorder of carbohydrate metabolism
9. Gluconeogenesis
10. Deamination and transamination
11. Classification and properties of Lipids
12. Prostaglandins
13. Metals as co-enzymes and its biochemical significance
14. Nucleotides
15. Composition of DNA with a suitable diagram
16. Transcription and translation of gene
17. DNA detection method for disease diagnosis
