

Second Year B.Pharm Degree Examinations - August 2014

(2012 Scheme)

APPLIED BIOCHEMISTRY & MOLECULAR BIOLOGY

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. What are enzymes. Explain the influence of substrate concentration on enzyme activity with Michaelis plot and line weaver burke plot.
2. Explain the HMP shunt and its significance.
3. Explain genetic code in detail.

Short notes

(14x5=70)

4. Carrier mediated transport across cell membrane
5. Catabolism of phenyl alanine and its metabolic disorders.
6. Diabetes mellitus.
7. Mechanism of electron transport chain.
8. ATP production and its significance.
9. Significance of RNA in protein synthesis.
10. Define carbohydrate and classify them.
11. Eicosanoids
12. Nitrogen balance
13. Osazone test for carbohydrates.
14. Hypercholesterolemia.
15. Mutation
16. Any one mechanism of enzyme action
17. Biosynthesis of heme
