

Second Year B.Pharm Degree Supplementary Examinations – January 2016

Applied Biochemistry & Molecular Biology

(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Write equations wherever necessary.

Essay

(3x10=30)

1. Definition, location, importance and reactions of gluconeogenesis
2. Explain the path of β -oxidation of palmitic acid. Add a note on its energetics
3. Discuss different types of DNA damages and the repair mechanisms

Short notes

(14x5=70)

4. Essential amino acids
5. Prostaglandins
6. Genetic code
7. Structure of tRNA
8. Ketone bodies
9. Mechanism of enzyme action
10. Amphibolic nature of citric acid cycle
11. Fatty liver
12. ATP as energy currency
13. Glycogen storage disease
14. Ammonia toxicity
15. Gout
16. In-vitro amplification of DNA
17. Restriction endonucleases
