

2012 Scheme

QP CODE: 217006

Reg. No:

Second Year B. Pharm Degree Supplementary Examinations
February 2024

Applied Biochemistry & Molecular Biology

Time: 3 Hours

Total Marks: 100

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Write equations wherever necessary.

Essay

(3x10=30)

1. Explain the various factors affecting enzyme activity. Explain any four factors in detail
2. Explain β - oxidation of palmitic acid with its energetics.
3. Describe various steps involved in the biosynthesis of cholesterol.

Short notes

(14x5=70)

4. Energy rich compounds and their significance.
5. Different types of transport process across cell membrane.
6. Enzyme induction and repression.
7. Inhibitors of electron transport chain and oxidative phosphorylation.
8. Significance of Hexose Mono Phosphate pathway.
9. Discuss Glycogenolysis.
10. How are bile pigments formed.
11. Metabolism of sulfur containing amino acids.
12. Explain transamination with examples.
13. Types of RNA and their functions.
14. Explain Regulation of gene expression using Lac operon concept.
15. Urea cycle disorders.
16. Importance of Glycerol-Phosphate shuttle.
17. Explain any one immunological method for disease diagnosis.
