

2010 Scheme

QP CODE: 207006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations January 2023 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*
- *Draw table/diagrams/flow charts wherever necessary.*

Essay

(3x10=30)

1. Define enzymes and discuss the factors affecting enzyme activity.
2. Explain citric acid cycle and its significance.
3. Explain the structure of DNA and enumerate semi conservative model of DNA replication.

Short Notes

(14x5=70)

4. Structure and biochemical function of mitochondria.
5. ATP and its biological significance.
6. Michaelis plot.
7. Mechanism of electronic transport chain.
8. Classification and biological role of carbohydrates.
9. Glycogen storage diseases.
10. HMP shunt.
11. De novo synthesis of fatty acids.
12. Chemistry and significance of phospholipids.
13. Synthesis and significance of creatine.
14. Bile pigments.
15. Biosynthesis of pyrimidine nucleotides.
16. Structure and function of chromosomes.
17. DNA detection methods.
