

2012 Scheme

QP CODE: 217006

Reg. No:

Second Year B. Pharm Degree Supplementary Examinations July 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*
- *Write equations wherever necessary.*

Essay

(3x10=30)

1. Define enzyme inhibition. Explain the different types of enzyme inhibition with examples.
2. Discuss urea cycle with its metabolic disorders.
3. Explain de novo synthesis of purine nucleotides.

Short notes

(14x5=70)

4. Write the biochemical functions of Nucleus and Mitochondria.
5. Write the structure and biochemical functions of cyclic AMP.
6. Explain the theories of enzyme action.
7. Define isoenzymes. Give the diagnostic application of isoenzymes.
8. What are cytochromes. Explain their role in biological oxidation.
9. How does Insulin regulate blood glucose level.
10. Define carbohydrates. Write the classification of carbohydrates with examples.
11. Synthesis and utilization of ketone bodies.
12. Disorders of lipid metabolism.
13. Catabolism of phenylalanine.
14. Biosynthesis and biological role of catecholamines.
15. What is mutation. Explain the different types of mutation with consequences.
16. Explain any one DNA detection method.
17. Biochemical functions of thiamin and riboflavin as coenzymes.
