

2010 Scheme

QP CODE: 207006

Reg. No:

**Second Year B.Pharm Degree Supplementary Examinations
February 2021
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. Classify enzymes and describe the factors affecting enzyme activity (4+6)
2. Explain glycolysis and its significance (7+3)
3. What are ketone bodies and enumerate ketogenesis and ketolysis (2+8)

Short Notes

(14x5=70)

4. Atherosclerosis
5. Metabolism of heme
6. Synthesis and significance of histamine
7. Diabetes mellitus
8. Oxidative phosphorylation
9. Isoenzymes and its diagnostic applications
10. Define DNA replication and its types
11. Catabolism of tryptophan and its metabolic disorder
12. Structure of ATP and its biological role
13. Phospholipids
14. Enzyme inhibition
15. Hormonal regulation of carbohydrate metabolism
16. Synthesis of bile acids
17. DNA mutation and repair mechanism
