

QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary
Examinations October 2024
Biochemistry
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *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 diagrams wherever necessary*

Essays

(2x10=20)

1. Discuss glycolysis with its energetics.
2. Define beta oxidation. Explain the steps in the beta oxidation of palmitic acid along with energetics.

Short Notes

(7x5=35)

3. Different types of enzyme inhibition with examples.
4. State the relationship between free energy, enthalpy, and entropy.
5. Account the therapeutic and diagnostic applications of enzymes.
6. Write the classifications and functions of carbohydrates.
7. Add a note on oxidative phosphorylation and its mechanism.
8. Narrate catabolism of purine nucleotides.
9. Explain the transcription process.

Answer Briefly

(10x2=20)

10. Biological significance of cholesterol.
11. Ketolysis and its significance.
12. Define transamination with an example.
13. Applications of isoenzymes.
14. What are glycogen storage diseases.
15. Genetic code.
16. DNA replication.
17. Types and functions of RNA.
18. Define and classify lipids with examples.
19. Define nucleosides and nucleotides with examples.
