

QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations
April 2024
Biochemistry**

(Common for 2017 and 2022 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. Explain the nomenclature and IUB classification of enzymes.
2. Discuss the TCA cycle with its energetics.

Short Notes

(7x5=35)

3. Write the structure and functions of DNA.
4. Biosynthesis of pyrimidine nucleotides.
5. Write the biological significance of the catabolism of cholesterol.
6. Explain transamination and deamination with suitable examples.
7. Discuss β -oxidation of saturated fatty acid.
8. Define energy rich compounds and write the structure and functions of Adenosine triphosphate (ATP).
9. Explain role of Hormones in the regulation of blood glucose level.

Answer Briefly

(10x2=20)

10. Diabetes mellitus.
11. Mention isoenzymes and their diagnostic role.
12. Write the inhibitors of protein synthesis.
13. Atherosclerosis.
14. Albinism.
15. Define endergonic and exergonic reactions.
16. Uncouplers of oxidative phosphorylation.
17. Classify carbohydrates.
18. Mention the disorders of urea cycle.
19. DNA replication.
