

QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations  
August 2023  
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. Describe gluconeogenesis – pathway with its significance.
2. Discuss in detail about the Beta oxidation of fatty acid.

**Short Notes**

**(7x5=35)**

3. Oxidative phosphorylation.
4. Catabolism of purine nucleotides.
5. Explain briefly the semi conservative replication of DNA.
6. Synthesis and functions of RNA.
7. Allosteric enzymes regulation.
8. Summarize the synthesis and utilization of Ketone Bodies.
9. Explain briefly the biological significance of Cholesterol.

**Answer Briefly**

**(10x2=20)**

10. Transamination reaction of amino acid metabolism.
11. Inhibitors of protein synthesis.
12. Enzyme induction.
13. Biological significance of ATP.
14. Gout disease.
15. Substrate level phosphorylation.
16. Significance of HMP shunt.
17. Pyruvate dehydrogenase complex.
18. Disorders of urea cycle.
19. Biological significance of noradrenaline.

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