

QP Code: 223006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations  
January 2022**

**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. Briefly discuss about the citric acid cycle with its energetics and significance.
2. Discuss about the de-novo synthesis of fatty acids.

**Short Notes**

**(7x5=35)**

3. Mechanism of Electron Transport Chain (ETC)
4. Hormonal regulation of blood glucose level and diabetes mellitus.
5. Explain briefly the structure of DNA. Enumerate its functions.
6. Synthesis and significance of 5-HT.
7. Diagnostic applications of enzymes.
8. Biological significance of ATP and cyclic AMP.
9. Explain briefly transamination reaction of amino acid metabolism.

**Answer Briefly**

**(10x2=20)**

10. Enzyme induction.
11. Genetic code
12. Translation
13. Inhibitors of electron transport chain
14. Significance of glycolysis
15. Biological significances of dopamine.
16. Ketoacidosis
17. Glucose-6-Phosphate dehydrogenase deficiency.
18. Concept of free energy
19. Hyperuricemia

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