

**Second B. Pharm (Ayurveda) Degree Supplementary Examinations
September 2022
Biochemistry & Pathophysiology**

Time: 3 hrs

Max 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 diagrams wherever necessary*
- *Write SECTION A and SECTION B in separate Answer books (32Pages). Do not mix up questions from Section A and Section B.*

Q.P. Code 206008

Section A- Biochemistry

75

Essays

(2x10=20)

1. Define lipids. What are essential fatty acids. Explain beta oxidation of fatty acids.
2. Describe citric acid cycle pathway with its energetic and significance.

Short notes

(5x5=25)

3. Structure and function of DNA.
4. Pentose phosphate pathway.
5. Enzyme kinetics.
6. Glycogenolysis.
7. Explain the biosynthesis of any one purine nucleotide.

Answer briefly

(10x3=30)

8. Biological significance of amino acids.
9. Write about enzyme inhibition with suitable examples.
10. Assimilation of ammonia.
11. Reduction potential.
12. Which are the sites of production of ATP in electron transport chain.
13. Ketogenesis.
14. Name the enzymes involved in urea cycle.
15. Stages of DNA replication.
16. Briefly explain the process of formation of bile pigments.
17. Name three inhibitors of electron transport chain and mention their site of action.

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Explain cellular adaptation process.
2. What is gout. Discuss the pathophysiology of gout.
3. Epilepsy.
4. Renal failure.
5. Pathophysiology of arteriosclerosis.
