

Second B. Pharm (Ayurveda) Degree Supplementary Examinations
August 2023
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 enzymes. Write the mechanism of action and inhibition. Detail the role of isoenzymes in clinical diagnosis.
2. What is mutation. Briefly explain chemical mutagenesis and DNA repair mechanism.

Short notes

(5x5=25)

3. Gluconeogenesis.
4. Beta oxidation of fatty acids.
5. Metabolic disorders of urea cycle.
6. Oxidative phosphorylation.
7. Citric acid cycle.

Answer briefly

(10x3=30)

8. Biological significance of ATP.
9. Write a note on the transport process across cell membrane.
10. Enumerate the role of prostaglandins.
11. Biosynthesis of ketone bodies.
12. Significance of co-enzymes.
13. Define respiratory chain. Name the inhibitors.
14. Metabolism of ammonia.
15. Name the enzymes involved and their role in DNA replication.
16. Transamination.
17. Regulation of gene expression.

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Explain the causes and pathogenesis of cell injury.
2. Mediators of inflammation.
3. Pathophysiology of tuberculosis.
4. Peptic ulcer.
5. Diabetes.
