

**Second B.Pharm (Ayurveda) Degree Supplementary Examinations
November 2021
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 and write the significance of electron transport chain. Explain in detail the Q cycle in complex III.
2. Write a note on initiation and termination phases of RNA transcription

Short notes

(5x5=25)

3. Urea cycle
4. Essential fatty acids
5. Factors effecting enzyme activity
6. Structure and function of cell membrane
7. Glycolysis.

Answer briefly

(10x3=30)

8. Name three derived amino acids with their biochemical importance.
9. What is frame shift mutation
10. Role of different types of RNA.
11. Name the enzymes which need following as co enzymes/ cofactors:
 - NADH • Iron • Biotin
12. What is the importance of ketone bodies in the body
13. Name the isoenzymes used for the diagnosis of:
 - Liver diseases • Prostate cancer • Heart diseases
14. Which organelles are responsible for:
 - Packaging of secretory molecules • Synthesis of RNA • Photosynthesis
15. Metabolic products of Tyrosine.
16. Write the diagrammatic representation of nitrogen cycle
17. Enumerate the various roles of phospholipids

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Causes and symptoms of acute and chronic renal failure
2. Pathophysiology of AIDS
3. UTI
4. Peptic ulcer
5. Epilepsy
