

Reg. No.:.....

**Second B. Pharm (Ayurveda) Degree Regular/Supplementary
Examinations April 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. Describe in detail various methods of biomolecule transport across cell membrane.
2. Describe in detail the process of transcription.

Short notes

(5x5=25)

3. Essential fatty acids.
4. Glycogenolysis.
5. Isoenzymes.
6. Minerals as cofactors.
7. Structure of DNA.

Answer briefly

(10x3=30)

8. Define exergonic and endergonic reactions.
9. Enlist the various inhibitors of ETC and oxidative phosphorylation pathway.
10. Urea Cycle.
11. Mention the organ and intracellular location of the following processes:
 - TCA • Urea cycle • Gluconeogenesis
12. Define nitrogen fixation, nitrification and ammonia fixation.
13. The coenzyme forms of vitamin B₇, vitamin B₅ and vitamin B₃.
14. Enlist the various functions of lysosome, golgi bodies and endoplasmic reticulum.
15. Beta oxidation.
16. Enlist the various functions of ATP in the biological systems.
17. Products of tyrosine metabolism."

Q.P. Code 207008

Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Diabetes mellitus.
2. STD.
3. Atherosclerosis.
4. Gout.
5. Process of inflammation.
