

Second B.Pharm (Ayurveda) Degree Supplementary Examinations

April 2018

Biochemistry & Pathophysiology

Time: 3 hrs

Max marks: 100

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

Q.P. Code 206008

Section A- Biochemistry

75

Essays

(2x10=20)

1. What are the different types of enzyme inhibition and explain with suitable examples.
2. What is the major catabolic pathway of glucose under anaerobic conditions. Mention the steps in the pathway and indicate the key enzymes.

Short notes

(5x5=25)

3. Labeled diagram of mitochondria and enumerate its functions.
4. Glycogenolysis with the hormonal regulation of the pathway.
5. What is competitive inhibition with two examples.
6. Steps by which ammonia is detoxified in brain and liver.
7. Name six important compounds derived from glycine and indicate its functions.

Answer briefly

(10x3=30)

8. Active transport.
9. Energy rich compounds.
10. Phospholipids.
11. t-RNA
12. Glyoxylate cycle.
13. Substrate level phosphorylation.
14. Explain the amphibolic nature of citric acid cycle.
15. Oxidation of odd chain fatty acids.
16. Describe the fate and functions of methionine.
17. Enzymes associated with diagnosis of myocardial infarction.

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Depression.
2. Describe the process of cellular adaptation.
3. Myocardial infarction
4. Asthma
5. Types of diabetes