

Reg. No.:.....

Second B.Pharm (Ayurveda) Degree Examinations, October 2017

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. Describe carbohydrate metabolism in detail
2. Detail the biosynthesis of nucleic acids

Short notes

(5x5=25)

3. Enzyme inhibition
4. The stages of fatty acid oxidation
5. Krebs cycle
6. Role of metals as co enzymes and their significance
7. Biochemical functions of Vitamin B12.

Answer briefly

(10x3=30)

8. Three functions of mitochondria
9. Sodium pump
10. Functions of essential fatty acids
11. Deficiency manifestations of vitamin B1 (Thiamine)
12. Hyperbilirubinemia
13. Toxicity of ammonia
14. Hyperuricemia
15. Iso-enzymes of CPK
16. Negative gene regulation
17. Types of mutations

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Hypertrophy
2. Process of tissue repair
3. Mediators of inflammation
4. Hypertension
5. Angina pectoris
