

Reg. No.:.....

Second B.Pharm (Ayurveda) Degree Examinations, October 2013
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. Do not mix up questions from Section A and Section B.

Q.P.Code 206008

Section A- Biochemistry

75

Essays

(2x10=20)

1. Describe the betaoxidation steps of palmitic acid giving the energetic and regulation
2. "Glyconeogenesis is not a simple reversal of glycolysis". Justify your answer giving the reactions

Short notes

(5x5=25)

3. Synthesis and catabolism of serotonin
4. Pyrimidine synthesis
5. Classification of amino acids
6. Structure of mitochondria with a labeled diagram and its function
7. What is k_m value and state its significance

Answer briefly

(10x3=30)

8. Four examples of transmethylation reaction
9. Therapeutic uses of enzymes
10. Genetic code
11. Difference between DNA and RNA
12. What is the recommended daily allowance of thiamine, folic acid, Vit B₁₂, pyridoxine, riboflavin and niacin
13. Energy rich compounds
14. Inhibitors of protein biosynthesis
15. Exons and introns
16. Hartnup's disease
17. Miester cycle

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Define cell injury. Explain the causes for cell injury
2. Briefly explain the mediators of inflammation
3. What is diabetes mellitus. Explain the types and pathophysiology
4. Describe the pathophysiology of syphilis
5. Classify epilepsy. Explain the pathophysiology of epilepsy
