

Reg. No.:.....

Second Year B.Pharm (Ayurveda) Degree Examinations, October 2014
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. Trace the pathway of gluconeogenesis from alanine. Mention the key enzymes
2. De-novo synthesis of purines with regulation. Mention two analogues as inhibitors

Short notes

(5x5=25)

3. Describe the formation and fate of bilirubin
4. Energy releasing steps of citric acid cycle
5. Facilitated transport
6. Classification of enzymes
7. Malate-aspartate shuttle

Answer briefly

(10x3=30)

8. Competitive inhibition with an example
9. Coenzyme functions of biotin
10. Carnitine
11. Deficiency manifestations of pyridoxine
12. Relation of urea cycle with citric acid cycle
13. Adenosine tri phosphate(ATP)
14. Transamination
15. Salient features of active site of enzyme
16. Base pairing rule
17. Uniport, symport and antiport

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Explain the pathogenesis of cell injury
2. Briefly explain atrophy and hypertrophy
3. Outline the process of tissue repair
4. Define hypertension. Explain the pathophysiology of hypertension
5. Explain the molecular basis of neoplasm
