

Reg. No.:.....

Second B.Pharm (Ayurveda) Degree Examinations, October 2015
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. Mention the source of C and N atoms of purine and pyrimidine rings. How is de-novo synthesis regulated
2. Describe the phases of activation, initiation, elongation and termination of biosynthesis of protein.

Short notes

(5x5=25)

3. Structure of cell membrane.
4. Explain the mechanism of allosteric regulation of enzymes with an example.
5. Sources and fate of acetyl CoA .
6. Describe the reactions of urea cycle.
7. What are the salient features of Watson- Crick model of DNA.

Answer briefly

(10x3=30)

8. Deficiency manifestations of vitamin B₁₂.
9. Different types of RNA.
10. Fate of bilirubin.
11. Albinism.
12. Creatinine synthesis.
13. Pinocytosis
14. Iso-enzymes of CPK.
15. Physical and chemical mutagens.
16. Sodium pump.
17. Regulation of gluconeogenesis.

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Section B- Pathophysiology

25

Answer briefly

(5x5=25)

1. Angina pectoris.
2. Hypertension.
3. Peptic ulcer
4. Urinary tract infection
5. Tuberculosis
