

**Second B.Pharm (Ayurveda) Degree Regular/Supplementary  
Examinations November 2019  
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. Gluconeogenesis is not a reversal of Glycolysis. Explain.
2. Write the pathway, energy yield and significance of fatty acid catabolism.

**Short notes**

**(5x5=25)**

3. Structure of DNA
4. Factors effecting enzyme activity
5. Synthesis of ketone bodies
6. Vitamin B<sub>3</sub> and vitamin B<sub>6</sub> as coenzymes
7. Enzyme classification

**Answer briefly**

**(10x3=30)**

8. HMP Shunt pathway - significance
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9. Define leading and lagging strand.
10. Define inducer and repressor with suitable examples.
11. What is hyper bilirubinemia
12. The different end products of ammonia metabolism
13. The different isoenzymes of LDH.
14. Which organelles are called as:
  - Brain of the cell. • Suicidal bags • Power house
15. Define galactosemia.
16. Name the enzymes/ proteins responsible for:
  - RNA synthesis from DNA template
  - Unwinding of DNA • Synthesis of primer
17. Enumerate the various roles of phospholipids

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**Section B- Pathophysiology**

**25**

**Answer briefly**

**(5x5=25)**

1. Hypertrophy
2. Causes and pathology of cell injury
3. Tuberculosis
4. UTI
5. Anemia

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