



**Q.P. Code: 105001**

**Reg. no.: .....**

First Professional MBBS Degree Supplementary Examinations, February 2014

**BIOCHEMISTRY- PAPER I**

**Time: 3 Hours**

**Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

**(10)**

1. Explain in detail glycogenesis and glycogenolysis. Mention the enzyme defects in any two of glycogen storage disorders. (4+4+2= 10)

**Short essays**

**(2x5=10)**

2. Name the ketone bodies. Describe the process of ketogenesis. List the conditions that lead to ketoacidosis.
3. Mention the normal blood urea level. Explain how urea is synthesized in the body

**Short notes**

**(5x3=15)**

4. What is meant by suicide enzyme inhibition. Explain with one example.
5. Discuss about phenyl ketonurias.
6. What are glycosamino glycans. List two examples with its functions .
7. Discuss the primary structure of human insulin.
8. Discuss the significance of gluconeogenesis

**Answer briefly**

**(5x2=10)**

9. Functions of phospholipids
10. Name the poly amines and mention its functions.
11. Significances of km values.
12. Name the lung surfactant and mention its components
13. List the functions of Rapaport Leubering cycle.

**Give precise answers:**

**(5x1=5)**

14. Why starch can be utilized by humans but not cellulose.
15. What are cathepsins.
16. List two clinical examples of competitive inhibition.
17. Why alcohol ingestion causes fatty liver.
18. List the compounds formed from arginine.

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