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## First Professional MBBS Degree Examinations - August 2016 **BIOCHEMISTRY-PAPERI**

**Time: 3 Hours Total Marks: 50** 

- Answer all questions
- Draw diagrams wherever necessary

(10)**Essay** 

1. Trace the pathway of gluconeogenesis starting from alanine. Mention the key enzymes and how they are regulated. (5+3+2=10)

**Short essays** (2x5=10)

- 2. Define carnitine and explain its role in oxidation of fatty acids.
- 3. Explain different types of enzyme inhibition giving suitable examples

**Short notes** (5x3=15)

- 4. Essential fatty acids.
- 5. Name different lipases involved in lipid metabolism and mention its functions.
- 6. Transamination
- 7. Heat coagulation
- 8. Michaelis Menten constant

FirstRanker.com (5x2=10)**Answer briefly** 

- 9. Pro-enzymes
- 10. Invert sugar
- 11. Von Gierke's disease
- 12. Essential pentosuria

Give precise answers

13. Substrate level phosphorylation

- 14. Name the rate-limiting enzyme in fatty acid synthesis
- 15. What is GABA and mention its function
- 16. Mention the enzyme deficient in Tay Sach's disease
- 17. Mention any two compounds derived from cholesterol
- 18. Name two carbon dioxide releasing steps in the TCA cycle.

(5x1=5)