

**Q.P. Code: 105001**

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

**First Professional MBBS Degree Examinations August 2018**

**Biochemistry – Paper I**

**Time: 3 Hours**

**Total Marks: 50**

- Answer all questions
- Draw diagrams wherever necessary

**Essay**

**(10)**

1. Discuss the reactions of citric acid cycle. Explain its amphibolic role

**Short essays**

**(2x5=10)**

2. Regulation of blood glucose level
3. Explain the steps of beta oxidation of fatty acids

**Short notes**

**(5x3=15)**

4. Glucose transporters
5. Importance of glutathione peroxidase
6. Bile salts and its functions
7. Principle of electrophoresis
8. Name the metabolic disorders associated with aromatic amino acids

**Answer briefly**

**(5x2=10)**

9. Km value and its significance
10. Compare and contrast starch with glycogen
11. Proteolytic enzymes
12. Functions of prostaglandins
13. What is substrate level phosphorylation. Mention two examples

**Give precise answers:**

**(5x1=5)**

14. Name the high energy compounds
15. Biological defect in Hartnup's disease
16. What are glycosides. Mention one example.
17. Diagnostic significance of gamma glutamyl transpeptidase
18. Action of hormone sensitive lipase

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