

Q.P. Code: 105001

Reg. No.:

**First Professional MBBS Degree Regular/Supplementary Examinations
August 2019**

Biochemistry – Paper I

Time: 3 Hours

Total Marks: 50

- Answer all questions
- Draw diagrams wherever necessary

Essay

(10)

1. Discuss in detail the metabolism of phenylalanine. Name four biologically important compounds synthesized from phenylalanine. State two metabolic disorders associated and indicate the defective enzymes. (5+2+3)

Short essays

(2x5=10)

2. Glycogen storage diseases.
3. Transamination.

Short notes

(5x3=15)

4. Carnitine shuttle.
5. Isoenzymes of creatine phosphokinase
6. Causes of fatty liver.
7. Diagrammatically represent the electron transport chain.
8. Galactosemia.

Answer briefly

(5x2=10)

9. Non covalent bonds responsible for protein structure.
10. Name four enzymes of diagnostic significance in liver diseases.
11. Essential amino acids.
12. Four functions of prostaglandins.
13. Types of specificity of enzymes

Give precise answers

(5x1=5)

14. Two examples for dietary fibre
15. Mention One marker for each of the following. a) Peroxisomes b) Golgi bodies
16. Renal threshold value for glucose.
17. Biochemical defect in Refsum's disease.
18. Two functions of polyamines
