



**BIOCHEMISTRY (Revised Scheme)**

**QP Code: 1055**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**LONG ESSAY**

**2 X 9 = 18 Marks**

1. Describe the metabolism of glycine.
2. Describe the pentose phosphate pathway and mention its significance.

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Sources, RDA and factors affecting iron absorption
4. Fatty liver and lipotropic factors
5. Post translational modification
6. Concentration dilution test
7. Chemiosmotic theory of oxidative phosphorylation
8. Hippuric acid test
9. Application of recombinant DNA technology
10. Disorders associated with urea cycle
11. Transamination and its clinical significance
12. What are isoenzymes? Discuss the isoenzyme forms of LDH

**SHORT ANSWERS**

**16 X 2 = 32 Marks**

13. Invert sugar
14. Fate of bilirubin
15. Missense mutation
16. RNA polymerase
17. Alkaptonuria
18. Negative acute phase reactants
19. Carbonic anhydrase
20. Biochemical findings in kwashiorkor
21. Respiratory Quotient
22. Melanin synthesis
23. Pellagra
24. Alkaline phosphatase - diagnostic significance
25. FIGLU test
26. Functions of cysteine
27. Chargoff's rule
28. Functions of vitamin E

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