

(2010 scheme)

Biochemistry and Nutrition

Time : 3 hrs

Max marks : 100

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essays:

(2x10=20)

1. Define gluconeogenesis and describe its pathway
2. Explain the source, RDA, functions and deficiency manifestations of ascorbic acid

Short notes:

(10x5=50)

3. Classification of enzymes
4. Functions of nucleotides
5. Significance of HMP shunt pathway
6. Functions of glycine
7. Oxidative phosphorylation
8. Functions of calcium
9. Metabolic acidosis
10. Kwashiorkor
11. Reverse cholesterol transport
12. Functions of vitamin B₆

Answer briefly:

(10x3=30)

13. Iso-enzymes
14. Lipotropic factors
15. Reducing sugars
16. Significance of 2,3-BPG
17. Respiratory quotient
18. "Disaccharides
19. Negative nitrogen balance
20. Active transport
21. PUFA
22. Colorimetry