

(2010 scheme)

Biochemistry and Nutrition

Time : 3 hrs

Max marks : 100

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

Essays:

(2x10=20)

1. Describe briefly TCA cycle. What are the significance of TCA cycle (5+5=10)
2. Explain the sources, biochemical functions and deficiency manifestations of vitamin C (1+5+4=10)

Short notes:

(10x5=50)

3. HDL metabolism
4. Glycogenolysis
5. Covalent modification
6. Metabolic syndrome
7. Biochemical functions of copper
8. Prostaglandins
9. ELISA
10. Body mass index
11. Mitochondrial DNA
12. Mucopolysaccharides

Answer briefly:

(10x3=30)

13. Beriberi
14. Phenyl Ketonuria.
15. Sucrose
16. Metabolic acidosis
17. Anion gap
18. Antioxidants
19. Iodine
20. Arginine
21. Uncouplers of oxidative phosphorylation
22. Endoplasmic reticulum