

(2010 scheme)

Biochemistry and Nutrition

Time : 3 hrs

Max marks : 100

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

Essays:

(2x10=20)

1. Classify carbohydrates,. Describe the EMP pathway in brief. Add a note on Diabetes Mellitus
2. Explain the source, RDA, functions and deficiency manifestations of vitamin A

Short notes:

(10x5=50)

3. Dietary fiber
4. Competitive enzyme inhibition
5. Mucopolysaccharides
6. Lactose intolerance
7. Basal metabolic rate
8. Creatinine clearance test
9. Disorders of urea cycle
10. Hormonal regulation of blood sugar
11. Compounds synthesized from tyrosine
12. Electron transport chain

Answer briefly:

(10x3=30)

13. Significance of gluconeogenesis
14. Lipoprotein lipase
15. Metabolic acidosis
16. Simple proteins
17. Marasmus
18. Scurvy
19. Positive nitrogen balance
20. Electrophoresis
21. Antioxidants
22. Ketone bodies