

**(2010 scheme)**

**Biochemistry and Nutrition**

**Time : 3 hrs**

**Max marks : 100**

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

**Essays:**

**(2x10=20)**

1. Describe the pathway of glycolysis and its regulation
2. Give the source, RDA, functions and deficiency manifestations of vitamin D

**Short notes:**

**(10x5=50)**

3. Beriberi
4. Lipoproteins
5. Lactose intolerance
6. Transamination
7. Specific dynamic action
8. Ketogenesis
9. OGTT
10. Factors influencing enzyme activity
11. Role of hemoglobin in the regulation of acid-base balance
12. Protein energy malnutrition

**Answer briefly:**

**(10x3=30)**

13. Denaturation of proteins
14. Fatty liver
15. Inhibitors of cytochrome oxidase
16. Gout
17. FUNCTIONS OF VITAMIN K
18. Compounds synthesized from tryptophan
19. Passive transport
20. ELISA
21. PUFA
22. BMR