

Nutrition & Biochemistry

Time: 3 hrs

Max marks : 80

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

Essays

(2x15=30)

1. Explain the requirement, sources, and factors affecting absorptions, functions and deficiency of Iron. (2+3+3+4+3=15)
2. Explain the various steps of glycolysis. Mention the rate limiting enzymes involved in this process. Add a note on the energy yield in glycolysis. (8+4+3=15)

Short notes

(5x5=25)

3. Discuss the steps of fatty acid synthesis.
4. Classification of enzymes with examples.
5. Functions and deficiency of vitamin A
6. Free radicals and antioxidants.
7. Glycogenolysis

Answer briefly

(10x2 = 20)

8. Glycosaminoglycans
9. Functions of albumin
10. Name the different types of porphyria
11. Sorbitol and cataract
12. Primary structure of proteins
13. Rothera's test
14. Dietary fibre
15. Pellagra
16. Name the buffers in blood
17. Salient features of genetic code.

One word answer

(5x1 = 5)

18. Enzyme defect in van Gierke's disease is
19. Sulphur containing amino acids are
20. Vitamin E sparing mineral is
21. Insulin dependent glucose transporter is
22. Daily requirement of iodine in diet is