

Second Year B.Sc Optometry Degree Supplementary Examinations
April 2018

Nutrition & Biochemistry
(2010 scheme)

Time: 3 hrs**Max marks: 80**

- Answer all questions
- Draw diagram wherever necessary

Essays**(2x15=30)**

1. What is beta oxidation? Describe the steps of beta oxidation and add a note on energetics. (1+12+2)
2. What are the sources, biochemical functions and deficiency manifestations of vitamin A (2+7+6)

Short notes**(5x5=25)**

3. Intraocular gels
4. Iron absorption
5. Atherosclerosis
6. Aqueous humor
7. Formation and utilization of ketone bodies

Answer briefly**(10x2=20)**

8. Acetyl choline
9. Porphyrias
10. Competitive inhibition
11. Nitrogen balance
12. Buffers
13. Methanol poisoning
14. Dietary fiber
15. Rickets
16. Vitamin C
17. Complete protein

One word answer**(5x1=5)**

18. What is normal serum cholesterol level
19. Name one iron containing enzyme
20. What is metabolic alkalosis
21. Deficiency manifestations of vitamin B₁₂
22. Name one semi essential amino acid