

**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