

Q.P. Code: 221013

Reg. No.:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations November 2024
Nutrition, Biochemistry & Pharmacology
Section A: Nutrition, Biochemistry
(2016 scheme)**

Time: 2 hrs

Max marks: 40

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (10)

1. Describe the sources, daily requirement, biological functions and deficiency manifestations of Vitamin A. (1+1+4+4)

Short Notes: (3x5=15)

2. Importance of ocular biochemistry in ophthalmic practice
3. Metabolism of sulphur containing aminoacids
4. Malnutrition

Answer Briefly: (5x2=10)

5. Blood buffers
6. Fructose metabolism
7. Essential Fatty acids
8. Iron deficiency anemia
9. Metabolism of retina

Fill in the blanks: (5x1=5)

10. Glucose is reduced to sorbitol by -----
11. Amino acid necessary for heme synthesis is -----
12. Beta oxidation of fatty acids release -----
13. Porphyrias are genetic disorders of ----- metabolism
14. Normal fasting blood glucose value is -----
