

Q.P. Code: 221013

Reg. No.:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations November 2025**

**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 steps of beta oxidation of fatty acids. Add a note on regulation and energetics. (7+3)

Short Notes: (3x5=15)

2. Steps of glycolysis.
3. Functions of immunoglobulins.
4. Regulation of serum calcium level.

Answer Briefly: (5x2=10)

5. Essential fatty acids.
6. Competitive inhibition.
7. Beriberi.
8. Galactosemia.
9. Functions of tears.

Fill in the blanks: (5x1=5)

10. The normal level of serum bilirubin is -----
11. Bad cholesterol is -----
12. Night blindness is due to the deficiency of the vitamin -----
13. An example for free radical scavenging enzyme is -----
14. The plasma protein which maintains the colloidal oncotic pressure is -----
