

Q.P. Code: 221013

Reg. No.:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary  
Examinations January 2024**

**Nutrition, Biochemistry & Pharmacology**

**(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 D. (1+2+4+3)

**Short Notes:** (3x5=15)

2. Oral glucose tolerance test.
3. Urea cycle.
4. Ketosis.

**Answer Briefly:** (5x2=10)

5. Balanced diet.
6. Significance of HMP shunt pathway.
7. Functions of calcium.
8. Tear substitutes.
9. Blood buffers.

**Fill in the blanks:** (5x1=5)

10. ----- is the hormone which activates glycolysis.
11. The amino acid from which melanin is formed is -----
12. The normal level of serum cholesterol is -----
13. Pellagra is due to the deficiency of the vitamin -----
14. Normal Blood PH is .....

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