

Q.P. Code: 221013

Reg. No.:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary
Examinations September 2019**

Nutrition, Biochemistry & Pharmacology

(2016 scheme)

Time: 2 hrs

Max marks: 40

- **Answer all questions**
- **Draw diagrams wherever necessary**

Essay: (10)

1. Write the composition of tear film in detail. What are the functions of tears. Add a note on tear substitutes. (4+2+4)

Short Notes: (3x5=15)

2. Significance of HMP shunt pathway
3. Heme synthesis
4. Essential fatty acids

Answer Briefly: (5x2=10)

5. Congenital cataract
6. Suicide inhibition
7. Von Gierke's disease
8. Function of calcium
9. Taurine

Fill in the blanks: (5x1=5)

10. _____ is the mineral which function as an antioxidant.
11. The normal range of plasma pH is _____
12. In essential fructosuria, the enzyme deficient is _____
13. Good cholesterol is _____
14. _____ is the enzyme first elevated in acute myocardial infarction
