

Reg. No.:.....

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

**Nutrition, Biochemistry & Pharmacology  
(2014 scheme)**

**Time: 3 hrs**

**Max marks: 80**

- *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*
- *Write Section A and Section B in separate answer books. Do not mix up questions from Section A and Section B*

**Q.P. Code: 211013**

**Marks: 40**

**Section A: Nutrition & Biochemistry**

**Essay (10)**

1. What is our normal fasting plasma glucose level. Discuss in detail the regulation of blood glucose (1+9)

**Short notes (3x5=15)**

2. IUBMB Classification of enzymes
3. Wald's visual cycle
4. Structure and functions of immunoglobulins

**Answer briefly (5x2=10)**

5. Composition of tear film
6. Carnitine
7. Beriberi
8. Chylomicrons
9. Limiting amino acids

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

10. Lipoprotein known as bad cholesterol is.....
11. The normal arterial blood pH is.....
12. Two specialized products formed from tyrosine are.....and.....
13. Mucosal block theory explains the absorption of the mineral.....
14. Prostaglandins are synthesized from the fatty acid.....in our body

**(P.T.O)**

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**Section B: Pharmacology**

**Essay (10)**

1. Classify antiglaucoma drugs with examples and explain the pharmacological basis for using each of them

**Short notes (3x5=15)**

2. Uses and ADRs of Diazepam
3. Mydriatics
4. Ocular steroids

**Answer briefly (5x2=10)**

5. Fluoxetine and its uses
6. Antihistamines
7. Therapeutic uses and contraindications of Adrenaline
8. Iodine preparations for ocular use
9. Frusemide

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

10. Name one hemostatic .....
11. Name an anticoagulant used in eye disease.....
12. Name one antiseptic.....
13. Name one side effect of systemic glucocorticoids.....
14. Name one antiprotozoal agent.....

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