

Reg. No.:.....

**Second Year B.Sc Optometry Degree Regular/Supplementary  
Examinations February 2022**

**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. How phenyl alanine is catabolized. Describe the important compounds formed from phenyl alanine. Add a note on phenyl ketonuria (4+4+2)

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

2. Glycogen storage disorders
3. Atherosclerosis
4. Enzyme inhibition

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

5. Kwashiorkor
6. Composition of cornea
7. Respiratory acidosis
8. Beri beri
9. Altered food pattern

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

10. Normal reference level of blood calcium .....
11. The rate limiting enzyme of glycolysis is .....
12. Name two phospholipids .....
13. The copper containing enzyme is .....
14. The enzyme deficiency in Homocystinuria is .....

**(P.T.O)**

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**Marks: 40**

**Section B: Pharmacology**

**Essay**

**(10)**

1. Classify Atropine substitutes. Write the pharmacological actions and therapeutic uses of Atropine in the eye.

**Short notes**

**(3x5=15)**

2. Antihypertensive drugs
3. Factors influencing the penetration of ocular drugs
4. Significance of Zinc in eye

**Answer briefly**

**(5x2=10)**

5. Antihistaminics
6. Non-Steroidal Antinflammatory Drugs (NSAIDs) for ophthalmic use
7. Selective serotonin reuptake inhibitors
8. Adverse drug reactions (ADRs)
9. Uses of Adrenaline

**Fill in the blanks**

**(5x1=5)**

10. Name one diuretic used in eye.....
11. Name one preservative used in eye drops.....
12. Latanoprost belongs to ..... group of drugs
13. Name one antifungal drug used in eye .....
14. Name one crystalloid plasma expander.....

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