

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)

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.....
