

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
May 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. Explain the Citric Acid Cycle and its biochemical reactions.

(1+9)

Short notes

(3x5=15)

2. Mention the biochemical functions and the deficiency manifestations of Vitamin A.
3. IUBMB classification of enzymes with examples.
4. Porphyrias

Answer briefly

(5x2=10)

5. Composition of cornea
6. Wilson's disease
7. Buffer
8. Atherosclerosis
9. Protein-Energy Malnutrition

Fill in the blanks

(5x1=5)

- 10.....and are primarily concerned with humoral immunity
- 11.The normal blood glucose level is.....
- 12.Niacin deficiency causes
- 13 is a hypoglycemic hormone."
- 14.Active form of Vitamin D is

(P.T.O)

Section B: Pharmacology

Essay

(10)

1. List five oculotoxic drugs along with their specific ocular toxicity. Add a note on adverse drug reactions (5+5)

Short notes

(3x5=15)

2. Ocular routes of drug administration
3. Treatment of bacterial conjunctivitis and corneal ulcers
4. Ocular uses of local anesthetics

Answer briefly

(5x2=10)

5. Wetting agents and tear substitutes
6. Two uses and contraindications of ocular steroids
7. Muscarinic receptor antagonists used in eye
8. Treatment of Onchocerciasis blindness
9. Prostaglandin analogues used for glaucoma

Fill in the blanks

(5x1=5)

10. Name one selective serotonin receptor inhibitor
11. The thrombolytic agent given as a single intravenous bolus is.....
12. Name one dye used for retinal angiography.....
13. Name one antianginal given sublingually
14. Name the drug of choice for anaphylactic shock
