

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
April 2019**

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

Time: 3 hrs

Max marks: 80

- Answer all questions
- Draw diagrams 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. Define glycolysis. Discuss the steps in glycolysis.

Short Notes

(3x5=15)

2. IUBMB classification of enzymes
3. Jaundice
4. Body buffers

Answer briefly

(5x2=10)

5. Clinical manifestation of vitamin D deficiency
6. Causes of proteinuria
7. Dietary fiber
8. Functions of bile slats
9. Principle of electrophoresis

Fill in the blanks

(5x1=5)

10. Normal blood level of potassium is
11. Km value increased in enzyme inhibition
12. First enzyme to be elevated in blood immediately after myocardial infarction
13. Von Gierke's disease is due to defect in enzyme
14. amino acid participates in trans methylation reactions.

(P.T.O)

Section B: Pharmacology

Essay **(10)**

1. Classify anti-glaucoma drugs. Diagrammatically illustrate the mechanism of action of these drugs. Mention two drugs used for the treatment of acute congestive glaucoma

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

2. Topical antibacterial agents and their indications in eye
3. Second generation anti-histaminics and uses
4. Local anesthetics for ophthalmic use

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

5. Contraindications of adrenaline
6. Iodine preparation for ocular use
7. Cycloplegic drugs
8. Mitotic and their uses
9. Zinc deficiency

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

10. Name one prodrug used in eye
11. Mention one side effect of systemic glucocorticoids in eye.....
12. Name an alpha 2 agonist for ophthalmic use.....
13. Name an antioxidant vitamin.....
14. Name a nephrotoxic drug.....
