

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
October 2018**

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. Describe the source, biological role and deficiency manifestations of vitamin C

Short notes

(3x5=15)

2. Enzyme inhibition
3. TCA cycle
4. Structure of immunoglobulin

Answer briefly

(5x2=10)

5. Porphyrias
6. Galactosemia
7. Total parental nutrition
8. Compositions of tear
9. Role of blood sugar in cataract formation

Fill in the blanks

(5x1=5)

10. Normal blood pH is
11. Hereditary fructose intolerance is due to the defect in enzyme
12. is referred as good cholesterol
13. Von Gierke disease is due to the deficiency of enzyme
14. Synthesis of glycogen is referred to as

(P.T.O)

Section B: Pharmacology

Essay **(10)**

1. Classify anti-histamines. Add a note on mast cell stabilizers.

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

2. Ocular toxicity of systemic drugs.
3. Anticoagulants.
4. Routes of ocular administration of drugs.

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

5. Drugs used in allergic conjunctivitis.
6. Prostaglandin analogues used in the eye.
7. Vitamin A
8. Drugs used in glaucoma
9. Non-steroidal anti-inflammatory drugs (NSAIDs)

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

10. Name one antiseptic
11. Name one anti-hypertensive
12. Name one drug used in angina
13. Name one ocular hypotensive
14. Name one topical local anesthetic
