

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
April 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 (new scheme)

Marks: 40

Section A: Nutrition & Biochemistry

Essay

(10)

1. Define enzyme. Discuss in detail the various factors affecting enzyme actions.

Short notes

(3x5=15)

2. Protein energy malnutrition
3. Significance of HMP shunt pathway
4. Diabetic keto acidosis

Answer briefly

(5x2=10)

5. Lens transparency
6. Functions of albumin
7. Lipid profile
8. Structure of retina
9. Enumerate plasma buffers

Fill in the blanks

(5x1=5)

10. Bilirubin is formed duringcatabolism
11.is the hypoglycemic hormone
12. Prostaglandins are formed from
13. Test for sugar in urine is
14. Synthesis of glucose from non-carbohydrate substances are referred as

(P.T.O)

Section B: Pharmacology

Essay **(10)**

1. Classify topical anti-bacterial agents used in ophthalmology. Add a note on anti-viral agents used in the eye.

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

2. Hydrocortisone
3. Local anesthetic
4. Ocular hypotensives

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

5. Therapeutic uses and contraindications of atropine
6. Adrenaline
7. Mydriatics and miotics
8. Mast cell stabilizers
9. Thrombolytic agents

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

10. Name one antihistamine
11. Give one adverse effect of topical glucocorticoids
12. Name one antifungal agent
13. Name one preservative used in the eye drops
14. Name one prostaglandin analogue used in the eye
