

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations  
February 2020**

**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. Define balanced diet. Discuss the various steps in prescribing diet for 60 kg sedentary adult male. (2+2+6)

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

2. Protein energy malnutrition
3. Digestion and absorption of lipids
4. Steps in beta oxidation of even chain fatty acid

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

5. Micelle.
6. Metabolism of lens.
7. Metabolic alkalosis.
8. Coenzyme role of thiamine.
9. Functions of carbohydrate.

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

10. Normal anion gap is \_\_\_\_\_
11. Alkaptonuria is due to deficiency of \_\_\_\_\_ enzyme.
12. Corneal epithelium derives oxygen mainly from \_\_\_\_\_.
13. Pellagra is due to deficiency of \_\_\_\_\_ vitamin.
14. \_\_\_\_\_ is a hypoglycemic hormone.

**(P.T.O)**

**Q.P. Code: 212013**

**Marks: 40**

**Section B: Pharmacology**

**Essay (10)**

1. Describe therapeutic and diagnostic use of atropine and adrenaline in the eye.

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

2. Drugs which increase the outflow of aqueous humour
3. Topical antibacterial agents for ophthalmic use
4. Pharmacokinetics of ocular drugs

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

5. Therapeutic uses of lignocaine
6. Prostaglandins analogues used in eye.
7. Mydriatics and miotics
8. Tear substitutes.
9. Ocular toxicity of some systemic drugs

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

10. Name one antiglaucoma drug.....
11. Name one anti-inflammatory used in eye.....
12. Povidone iodine is used as .....
13. Name one diuretic.....
14. Name one anticoagulants .....

\*\*\*\*\*