

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)

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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
