

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
February 2021**

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. Name the essential fatty acids. Discuss the steps in β oxidation of even chain fatty acid. (2+8)

Short notes (3x5=15)

2. OGTT
3. Porphyrias
4. Role of vitamin A in vision

Answer briefly (5x2=10)

5. Marasmus
6. Metabolic alkalosis
7. Functions of IgG
8. Good quality protein
9. Energetics in TCA cycle

Fill in the blanks (5x1=5)

10. Normal level of blood calcium is
11. Calorific value of protein is kilocal/gm.
12. Prostaglandins are synthesized from
13. Long term monitoring of diabetes is done by measuring in blood
14. Phenyl ketonuria is due to deficiency of enzyme.

(P.T.O)

Section B: Pharmacology

Essay (10)

1. Classify Non-Steroidal Anti-Inflammatory Drugs (NSAIDs) with their mechanism of action. Add a note on topical NSAIDs used in eye.

Short notes (3x5=15)

2. Significance of vitamin A in eye
3. Ocular hypotensives
4. Thrombolytic agents

Answer briefly (5x2=10)

5. Tear substitutes
6. Antiviral agents for ophthalmic use
7. Uses of diazepam
8. Side effects of topical steroids in eye
9. Atropine substitutes in eye

Fill in the blanks (5x1=5)

10. Name one oxidizing agent.....
11. Name one diagnostic dye used in eye
12. Name one teratogenic drug
13. Name one topical preparation used in allergic conjunctivitis.....
14. Name one prostaglandin analogue.....
