

Reg. No.:.....

**Second Year B.Sc Optometry Degree Supplementary Examinations
June 2022**

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. What is glycolysis. Describe steps of glycolysis. Add a note on energetics and regulation
(1+5+2+2)

Short notes (3x5=15)

2. Factors affecting enzyme activity
3. Urea cycle
4. Formation and utilization of ketone bodies

Answer briefly (5x2=10)

5. How blood calcium is regulated
6. Biochemical functions of Thiamine
7. Metabolic alkalosis
8. Glaucoma
9. Intraocular gels

Fill in the blanks (5x1=5)

10. Normal reference level of blood bilirubin
11. The Prostaglandin used in the medical termination of pregnancy is
12. The deficiency manifestations of vitamin D is
13. The Zinc containing enzyme is
14. The enzyme deficiency in Phenyl ketonuria is

(P.T.O)

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Section B: Pharmacology

Essay

(10)

1. Classify the drugs used for glaucoma with their mechanism of action. Add a note on topical β blockers used in the eye.

Short notes

(3x5=15)

2. Inotropic drugs in heart failure
3. Ocular routes of drug administration
4. Topical antibacterial agents and their indications in the eye

Answer briefly

(5x2=10)

5. Anticoagulants
6. Drug induced ocular toxicity
7. Glucocorticoids for ophthalmic use
8. Mydriatics and its uses in the eye
9. Uses of prostaglandins

Fill in the blanks

(5x1=5)

10. Name one tricyclic antidepressant
11. Name one antiviral drug used in eye.....
12. Flurbiprofen belongs to group of drugs
13. Name one mast cell stabilizer for allergic conjunctivitis.....
14. Name one haemostatic agent.....
