

Reg. No.:.....

Second Year B.Sc Optometry Degree Examinations October 2017

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. What is the normal blood urea level. Discuss in detail how ammonia is detoxified to urea.

Short notes

(3x5=15 marks)

2. Glucose tolerance test
3. Jaundice
4. Role of vitamin A in vision

Answer briefly

(5x2=10 marks)

5. Corneal metabolism
6. Balanced diet
7. Retinal neurochemistry
8. Rate limiting enzymes in glycolysis
9. Green leafy vegetables.

Fill in the blanks

(5x1=5 marks)

10. Primary deficit in blood bicarbonate causes
11. is referred as bad cholesterol
12. is the first enzyme elevated in acute myocardial infarction
13. Scurvy is due to the deficiency of
14. Normal serum sodium level is

(P.T.O)

Section B: Pharmacology

Essay **(10)**

1. Mention the therapeutic and diagnostic uses of atropine. Add a note on adrenaline.

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

2. Tear substitutes.
3. Mydriatics and miotics used in the eye
4. Anti-viral agents used in ophthalmology

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

5. Uses and adverse effects of diazepam
6. Antihistamines
7. Antiseptics
8. Zinc deficiency
9. Ocular hypotensives

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

10. Name one miotic used in glaucoma
11. Give one adverse effect of topical steroids
12. Name one anticoagulant
13. Name the diuretic used in treatment of glaucoma
14. Name one topical local anesthetic
