

Reg. No.:.....

Second Year B.Sc Optometry Degree Supplementary Examinations April 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 sugar level. Explain in detail the various factors regulating blood sugar level. (2+8=10 marks)

Short notes

(3x5=15 marks)

2. Biological role of vitamin A.
3. Absorption of iron.
4. Factors affecting nitrogen balance.

Answer briefly

(5x2=10 marks)

5. Lens protein.
6. Dietary fiber.
7. Composition of aqueous humor.
8. Metabolic acidosis.
9. Functions of immunoglobulin G.

Fill in the blanks

(5x1=5 marks)

10. Test for ketone bodies in urine is_____.
11. Adequate calorie intake and isolated protein deficiency is seen in_____.
12. Methionine is an example of _____ containing amino acid.
13. Deficiency enzyme in Von Gierke's disease is_____.
14. Normal albumin globulin ratio is_____.

(P.T.O)

Section B: Pharmacology

Essay

(10)

1. Classify anti glaucoma drugs. Add a note on the topical local anesthetics.

Short notes

(3x5=15 marks)

2. Non-steroidal anti-inflammatory (NSAIDS)
3. Tear substitutes.
4. Adverse drug reactions

Answer briefly

(5x2=10 marks)

5. Therapeutic uses and contraindications of adrenaline.
6. Uses and adverse effects of diazepam.
7. Routes of ocular administration.
8. Antiviral agents for ophthalmic use.
9. Drugs used in allergic conjunctivitis

Fill in the blanks

(5x1=5 marks)

10. Name one mydriatics
11. Name one miotics
12. Rose bengal is used in the diagnosis of
13. Name one preservative used in the eye drops...
14. One side effect of topical steroid eye drops.....
