Second Year B.Sc Optometry Degree Examinations – November 2016

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. Mention the source and daily allowance of vitamin C. Add a note on biochemical functions of vitamin C.   (2+2+6=10 marks)

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

2. Significance of HMP shunt pathway.

3. Steps in urea cycle.

4. IUBMB classification of enzymes.

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

5. Essential fatty acid.

6. Retina in uncontrolled diabetes mellitus.

7. Net protein utilization.

8. Indications for doing OGTT.

9. Role of PTH in regulating blood calcium level.

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

10. Van den Bergh Test is done for estimating serum _____

11. _____ is an example for non reducing sugar.

12. HDL is referred as _____ cholesterol.

13. First enzyme to be elevated in serum after Myocardial infarction is_____ .

14. .... is an example of a selenium containing enzyme

(P.T.O)

Section B: Pharmacology

Essay   **(10)**

1. Describe the pharmacokinetics of ocular drugs. Mention the therapeutic uses and adverse effects lignocaine.

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

2. Uses and adverse effects of atropine in eye.

3. Antidepressants.

4. Vitamins and zinc deficiencies

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

5. Drugs used in cardiac failure

6. Uses and adverse effects of antihistamine.

7. Thrombolytic agents

8. Antifungal agents for ophthalmic use.

9. Antiseptics

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

10. Name one mast cell stabilizers ……………

11. Name one antiviral agent for ophthalmic use…………….

12. Fluorescein is used in the diagnosis of ………………

13. Name one drug for relief of dry eye symptoms………………

14. Drug which increase the outflow of aqueous humor …….

****