Q.P.Code 204013	Reg. No.:

Second Year B.Sc Optometry Degree Supplementary Examinations – June 2015

Nutrition & Biochemistry

Time: 3 hrs Max marks: 80

- Answer all questions
- Draw diagram wherever necessary

Essays (2x15=30)

- 1. Describe the dietary sources, requirement and metabolism of iron. Add a note on the causes and manifestations of iron deficiency. (1+1+5+4+4=15)
- 2. Explain the steps of beta oxidation of palmitic acid, giving its energetics.

Short notes (5x5=25)

- 3. Lens metabolism.
- 4. Calcitriol.
- 5. Ketoacidosis.
- 6. Digestion and absorption of carbohydrates.
- 7. Protein energy malnutrition.

Answer briefly (10x2 = 20)

- 8. Proteinuria.
- 9. Antioxidants.
- 10. Significance of HMP shunt pathway.
- 11. Coenzyme functions of niacin.
- 12. Hereditary fructose intolerance.
- 13. Methanol poisoning.
- 14. Phospholipids.
- 15. Folate antagonists.
- 16. Carnitine.
- 17. Galactosemia.

One word answer (5x1 = 5)

- 18. Name a biotin antagonist.
- 19. is an active pump mechanism within the endothelium which pushes out the aqueous which has entered the cornea.
- 20. The lens contains soluble proteins called
- 21. Deficient enzyme in phenyl ketonuia.
- 22. Normal pH of plasma is
