

Second Year B.Sc Optometry Degree Examinations – November 2015**Nutrition & Biochemistry****Time : 3 hrs****Max marks : 80**

- **Answer all questions**
- **Draw diagram wherever necessary**

Essays**(2x15=30)**

1. What is normal calcium level. What are the biochemical functions of calcium. How calcium is regulated in the body. (1+7+7=15)
2. Define glycolysis. Describe steps of glycolysis. How glycolysis is regulated in the body (1+11+3=15)

Short notes**(5x5=25)**

3. Tear film
4. Dietary fiber
5. Vitamin E
6. What are the factors affecting enzyme action
7. Vitreous humor

Answer briefly**(10x2 = 20)**

8. Immunoglobulin
9. High density lipoprotein
10. Thiamine
11. Copper
12. Hemolytic jaundice
13. Metabolic acidosis
14. Essential fatty acids
15. Structure of retina
16. Rothera's test
17. Porphyrin

One word answer**(5x1 = 5)**

18. What is normal fasting blood sugar level
19. Deficiency manifestation of vitamin C
20. Enzyme deficient in albinism
21. What is the normal anion gap
22. Name one enzyme containing selenium
