

Second Year B.Sc Optometry Degree Supplementary Examinations –

November 2016

Nutrition & Biochemistry

(2010 scheme)

Time : 3 hrs

Max marks : 80

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

Essays

(2x15=30)

1. What are the sources, biochemical functions and deficiency manifestations of vitamin A
(3+7+5=15)
2. What is normal fasting blood level. How blood glucose level is regulated. Add a note on classification of diabetes mellitus.
(1+11+3=15)

Short notes

(5x5=25)

3. Cornea
4. Lipoprotein
5. Significance of TCA cycle
6. Glycogen storage diseases
7. Aqueous humor

Answer briefly

(10x2 = 20)

8. Intraocular gel
9. phospholipids
10. Riboflavin
11. Zinc
12. Hepatocellular jaundice
13. Metabolic alkalosis
14. Essential amino acids
15. Intraocular pressure
16. Specific dynamic action
17. Isoelectric pH

One word answer

(5x1 = 5)

18. What is normal blood urea level
19. Deficiency manifestation of pyridoxine
20. Enzyme deficient in phenylketonuria
21. Name one cause of hypoalbuminemia
22. Name one enzyme containing magnesium