

2010 scheme

Q.P. Code: 204013 (Old scheme)

Reg. No.:.....

Second Year B.Sc Optometry Degree Supplementary Examinations September 2019

Nutrition & Biochemistry

Time: 3 hrs

Max marks: 80

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

Essays

(2x15=30)

1. Describe the steps of TCA cycle. Explain the amphibolic role of TCA cycle. Add a note on anaplerotic reactions. (7+4+4)
2. How are enzymes classified according to IUBMB classification. What are the different factors affecting enzyme activity. Add a note on enzyme inhibition. (6+4+5)

Short notes

(5x5=25)

3. Corneal transparency
4. Deficiency manifestations of vitamin A
5. PEM and eye
6. Tyrosine metabolism
7. Lipoproteins

Answer briefly

(10x2=20)

8. Balanced diet
9. Buffers of body fluids.
10. Tear substitutes
11. Porphyrias
12. Monoamines
13. Complete proteins
14. Mutations
15. Intra ocular pressure
16. Essential fatty acids
17. Two coenzyme functions of biotin

Give precise answer

(5x1=5)

18. Name two copper containing proteins
19. Name two causes of glaucoma
20. Define metabolic acidosis
21. Normal fasting blood sugar level
22. Name two causes of jaundice
