

Rajiv Gandhi University of Health Sciences, Karnataka

**I Semester B.O.T Degree Examination – 05-
Jun-2024**

Time: Three Hours

Max. Marks: 100 Marks

Biochemistry (RS) Q.P. CODE: 3414

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Describe the steps involved in Gluconeogenesis.
2. Explain the process of Beta oxidation of fatty acids and add its energetics
3. Describe the renal mechanism in acid based balance

SHORT ESSAYS (Answer any Ten)

10 x 5 = 50 Marks

4. Discuss the functions and deficiency disorders of Vitamin "D"
5. Explain energy requirement of a person
6. Explain trans deamination process of amino acids
7. Explain urea cycle
8. Write the classification of carbohydrates with examples
9. Lipid profile test
10. Briefly explain the factors affecting enzyme activity
11. Explain the mechanism of Group II A hormone action
12. Explain the structure of DNA
13. List out the sources, RDA, functions and disorders of phosphorous
14. Explain the structure and functions of Golgi apparatus
15. Discuss the classification of proteins based on its nutritional values

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

16. Marasmus
17. Normal serum level of iron and iodine
18. Diagnostic enzymes
19. Nucleotides
20. Mention the hormones which regulates the blood glucose level
21. Essential amino acids.
22. Cofactors
23. Functions of phospholipids
24. Functions of Niacin
25. Active transport mechanism
26. Jaundice
27. Basal metabolic rate
