

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Semester Bachelor of Occupational Therapy Degree Examination – 04-Jun-2025

**Time: Three Hours**

**Max. Marks: 100**

### **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. Explain the source, daily requirement, functions and deficiency – disorder of Vitamin "C"
2. Explain TCA cycle and add a note on its energetic.
3. Explain the role of Kidney in Acid base balance

#### **SHORT ESSAYS (Answer any Ten)**

**10 x 5 = 50 Marks**

4. Briefly explain the digestion and absorption process of carbohydrates.
5. Describe the classification protein based on its function
6. Classification of lipids
7. Explain the structure and functions of t-RNA
8. Explain the mechanism of action of group I Hormone
9. Briefly explain the factors affecting the enzyme activity
10. Functions and deficiency disorders of Fe (Iron)
11. Explain energy requirement of a person
12. Explain urea cycle
13. Gluconeogenesis
14.  $\beta$  oxidation of fatty acids
15. Briefly explain the digestion and absorption process of carbohydrates.

#### **SHORT ANSWERS (Answer any Ten)**

**10 x 3 = 30 Marks**

16. Functions of phospholipids
17. G-proteins
18. Diagnostic enzymes
19. Myosin
20. Clinical complications of diabetes mellitus
21. SDA
22. Kwashiorkor
23. Jaundice
24. Normal serum level of Ca & p
25. Active transport
26. Co-enzymes
27. Golgi complex

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