

# Rajiv Gandhi University of Health Sciences, Karnataka

**I Semester Bachelor of Occupational Therapy Degree Examination – 17-Nov-2025**

**Time: Three Hours  
100**

**Max. 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. Explain Gluconeogenesis. What is the normal consumption of glucose in blood?
2. Explain  $\beta$  oxidation and add a note on its energetics.
3. Describe the source, RDA, functions and deficiency disorder of Vitamin "A"

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

**10 x 5 = 50 Marks**

4. Urea Cycle
5. Explain the structure and functions of t-RNA
6. Explain the structure and functions of cell wall
7. Digestion and absorption of protein
8. Explain the classification of carbohydrates with examples
9. Explain the regulation of enzyme activity
10. RFT (Renal function test)
11. Explain structure and functions of Mitochondria
12. Energy requirement of a person
13. Explain the steps involved in Heme synthesis
14. Classification of Amino acids
15. Describe the Transamination process of amino acids

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

**10 x 3 = 30 Marks**

16. Disaccharides
17. Functions of proteins
18. Fates of Cholesterol
19. RNA
20. Normal consumption of Calcium and phosphorous in Serum
21. Nitrogen bases
22. Essential amino acids
23. Active site of an enzyme
24. Renal Acidosis
25. Deficiency disorder of Iron
26. Active transport
27. Jaundice

\*\*\*\*\*