

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Semester Bachelor of Occupational Therapy Degree Examination – 11-May-2026

**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, RDA, functions and deficiency, disorder of Calcium
2. Explain Gluconeogenesis
3. Explain the classification of enzymes with example

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

**10 x 5 = 50 Marks**

4. Briefly explain the classification of Hormones
5. Explain the classification of proteins based on its structure and polarity
6. Explain Watson and Crick model of DNA
7. Explain the Degradation of Heme
8. Explain Lipid profile test
9. Explain the mechanism of Action of Group IIB hormone
10. Explain renal mechanism in acid base balance
11. Explain the functions and deficiency disorder of Vitamin A
12. Hormonal regulation of Blood glucose level
13. Explain the structure and functions of DNA
14. Briefly explain the inhibition of Enzymes
15. TCA Cycle

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

**10 x 3 = 30 Marks**

16. Functions of Ketone bodies
17. Explain RNA
18. ISO Enzymes
19. Functions of Vitamin D
20. Myosin
21. Name the test involved in RFT
22. Deficiency manifestations of Fe
23. RDA
24. Ribosomes
25. Passive Diffusion
26. Acidosis
27. Essential Fatty acids

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