Rajiv Gandhi University of Health Sciences, Karnataka

I Semester Bachelor of Occupational Therapy Degree Examination – 02-Nov-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. Describe the steps involved in TCA cycle and add a note on its Energetics.
2. Explain the lipids with examples.
3. Explain the mechanism of Action of Blood in acid based balance.

SHORT ESSAYS (Answer any Ten) **10 x 5 = 50 Marks**

4. Briefly explain the mechanism of Action of Group II C Hormone
5. Explain the classification of protein based on its nutritional values
6. Explain the structure and functions of mitochondria
7. Functions and deficiency disorder of Folic acid
8. Describe the source, functions, RDA and deficiency disorder of Iodine
9. Lipid profile test in serum
10. Nutritional importance of carbohydrates, lipids and proteins.
11. Explain Urea cycle.
12. Digestion of lipids
13. Modern classification of enzymes
14. Explain Watson and Crick model of DNA
15. Functions of Vitamin C

SHORT ANSWERS (Answer any Ten) **10 x 3 = 30 Marks**

16. SDA
17. Normal concentration of creatinine and urea
18. Cori Cycle
19. Functions of Ketone bodies
20. Amino acids
21. Nucleotides
22. Iso Enzymes
23. Facilitated Diffusion
24. Jaundice
25. Alkalosis
26. Lysosomes
27. Steroid Hormones

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