

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year B.Sc. (M.L.T) Degree Examination – 05-May-2026

Time: Three Hours

Max. Marks: 100 Marks

BIOCHEMISTRY – II (RS-4)
Q.P. CODE: 3279

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

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. Define enzymes. What are the factors affecting enzyme activity? Add a note on coenzymes.
2. Describe the structural organization of Proteins.

OR

Describe urea cycle. What is its importance? Add a note on its disorders.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Explain the principle and working of water distillation apparatus with diagram.
4. Write about general laboratory safety measures while working in laboratory.
5. Define normality. Explain the preparation of 100ml of 0.1N HCl from 1N HCl

OR

Classification of enzymes with examples.

6. Write the principles and working of magnetic stirrer.
7. Care, cleaning and maintenance of different plastic wares used in laboratory.
8. Write in detail about agarose gel electrophoresis for plasma proteins.
9. Define standard solution and a note on preparation of Glucose standard solution.
10. Explain thin layer chromatography.

OR

Write in detail about the principle, working and application of reflectance photometry.

11. Describe the properties of amino acid.
12. Explain various types of urine sample collections and preservatives used.

SHORT ANSWER

10 x 3 = 30 Marks

13. Blood urea nitrogen.
14. Oral glucose tolerance test.
15. Principles and application of spectrophotometry.
16. Water deionizers and their uses.
17. Significance of borosilicate glass.
18. Rothera's test and its importance.
19. What are anomers give two examples.
20. List out the denaturing agents for proteins.
21. Cold Box.
22. First aid in laboratory.
