

Rajiv Gandhi University of Health Sciences, Karnataka
Second Year B.Sc. Medical Laboratory Technology Degree Examination – 28-Oct-2025

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. Write the principle, instrumentation, operation and applications of thin layer chromatography
2. Explain the principle of reflectance photometry. Mention about glucometer

OR

Describe about types and management of diabetes mellitus

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Classify enzymes with examples
4. Procedure of venous blood sample collection
5. Precipitation reactions of proteins

OR

Explain principle and working of water distillation apparatus with diagram

6. Properties of amino acids
7. Denaturation of proteins
8. Use, cleaning and maintenance of different glass wares used in laboratory
9. Write about laboratory hazards
10. Glycated HbA_{1c} formation, biological reference intervals and clinical significance

OR

Saturated and supersaturated solution

11. Effect of substrate concentration on enzyme activity
12. Principle, components and working of centrifuge

SHORT ANSWER

10 x 3 = 30 Marks

13. Invert sugar
14. Benedict's test
15. Limitation of Beer – Lambert's law
16. Incubators
17. Definition and classification of international system of units
18. Dessicator and its uses
19. Significance of blood urea and serum creatinine
20. Immobilized enzymes
21. Heteropolysaccharides
22. Significance of borosilicate glass

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