

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. (M.L.T) Degree Examination – 06-May-2026

Time: Three Hours

Max. Marks: 100 Marks

BIOCHEMISTRY – III (RS-4)
Q.P. CODE: 3282

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. Explain the formation of Bilirubin. Write a note on Jaundice.
2. Define variables. Write a note on preanalytical, analytical and post analytical variables.

OR

Explain the process of transcription in a prokaryotic cell.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Isoenzymes.
4. Oral glucose tolerance test and its interpretations.
5. Qualitative analysis of renal calculi.

OR

Explain about Osmometry.

6. Principle, instrumentation and applications of atomic absorption spectrophotometry.
7. Metabolism of fructose and its associated disorders.
8. Electrophoretic patterns of plasma proteins in diagnosis of diseases.
9. Discuss the biochemical abnormality and clinical features of Phenyl Ketonuria and Alkaptonuria.
10. Mention a preparation of calibration curve. Add a note on its uses.

OR

Composition and clinical significance of CSF analysis.

11. Describe the enzymes used in determination of pancreatitis.
12. Explain chemistry, functions and clinical importance of Albumin.

SHORT ANSWER

10 x 3 = 30 Marks

13. Metabolic alkalosis.
14. Coronary artery disease.
15. CA-125
16. Preparation of Quality control sera.
17. Chemiluminescence.
18. Maple syrup urine disease.
19. Slide culture technique.
20. Normal serum levels of TSH, T₃ and T₄
21. Define replication and replication fork.
22. Creatinine clearance test.
