

Rajiv Gandhi University of Health Sciences, Karnataka
Third Year B.Sc. Medical Laboratory Technology Degree Examination – 16-May-2023

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. Write in detail the various stages of translation. Add a note on its inhibitors and post-translational modifications
2. Explain in detail about clinical laboratory automation

OR

What is glucose tolerance test? Give the procedure and clinical indications of oral glucose tolerance test. Draw the normal and diabetic GTT curves

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Laboratory safety measure
4. Principle and applications of ELISA
5. Classification and functions of plasma proteins
6. Electrophoretic separation of lipoproteins and clinical applications
7. Gout
8. Mutations and their effects
9. Sorbitol pathway of fructose metabolism and disorders
10. Disorders of acid-base balance and their causes

OR

Cardiac markers and their clinical significance

11. Types of errors in clinical laboratory
12. CSF analysis and its clinical significance

SHORT ANSWER

10 x 3 = 30 Marks

13. Preparation of quality control sera
14. Standard deviation and coefficient variation
15. Significance of uronic acid pathway
16. Principle and applications of HPLC
17. HbA1c estimation and its clinical interpretation
18. Acute phase proteins and their importance
19. Reference values of arterial blood gases and pH
20. Coronary artery disease
21. Microalbuminuria and clinical significance
22. Pancreatic function tests